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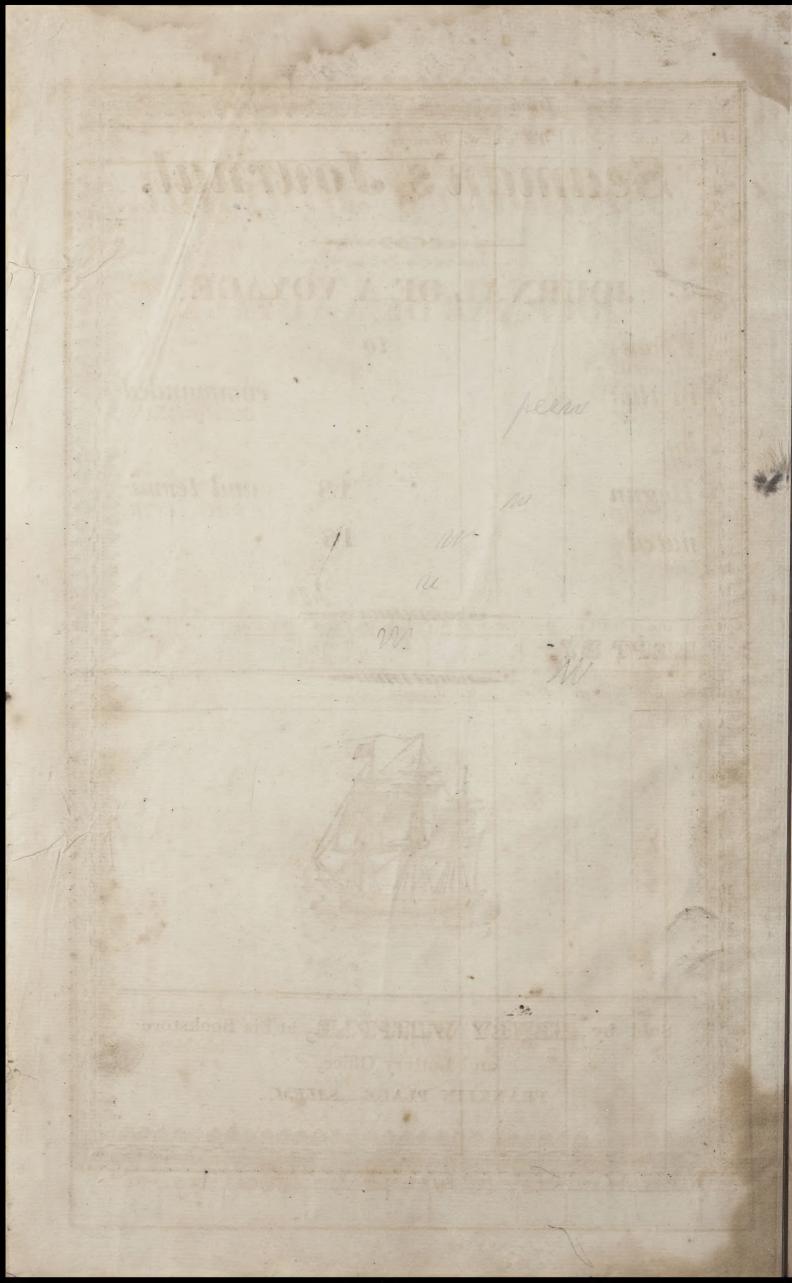
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Sold by FIENRY WHIPPLE, at his Bookstore and Lottery Office,
FRANKLIN PLACE,....SALEM....



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Hiram Putnam Master

	Ch	ini	CV .	from	9	Batavia rogards Salem
Н.	K.	H.K.	Courses.	Winds.	L.W.	Remarks Tues-day Jan 5th 1819
1 2 3 4 5 6 7 8 9 10 11 12 1 2	56565555666		SWBS SWBS	NENTU WBU		Commences with fresh bree: zes and cloudy, all necessary suil set. Unbent the cu- bles and eviled them below. At y J. M. Java Ecad bore NO E. B. E. Distance y leagues. Middle part fresh breezes &
4 5 6 7 8 9 10 11 12 Course	-10	14 16 4 2 5 Dist.	Diff. Lat.		it. by I	Ends cloudy D. R. Lat. by Ob. Varia: Diff. Long. Long. in Long. og Jo.
930 H.	K.	н.к.	Q/ Courses:	52 IVands.	8, 2	Remarks Wednesday Tan 4 th 1819
1 2 3 4 5 6	10 5 3 4 4 3	и 4	JGW ane S SBW	The Wind		Begins with fresh bree ges and schouly all necessary
7 8 9 10 11 12 1	4 4 4 5 4	4 4 5 4	SW 13 S			Middle part light bree - zes and cloudy with light
2 3 4 5 6 7. 8	4 4 4 3 2 2 2	5	SW SSW			L'aller part light breezes and heavy rain.
9 10 11 12 Cours	2 2 4 4 e. 1	5 5 Dist.	998 994 944 Diff. Lat.	Dep. L	at. by	D. R. Lat. by Db. Vatia. Diff. Long. Long. in Long. by Ob.

	ξ,	Elm	na	from	9	Bataria cowards Salem
Н.	K.	H.K.	Courses.	Winds	L. W.	Remarks Thurs day Jan. 7th 1819-
1 2 3 4 5 6 7	477764	2 5 7	SW2 S	NN E NB E due No	,	Eres and thick cloudy weather all 2 F. M. clear set the Ro-
8 9 10 11 12 1 2 3	4 3 3 3 2 2 3	5 6 4 4 2 5	SS 71.73.	due YM		Jore top must and lop gut - sindings als on the scan rand side At 3. 45 scring breezes
4 5 6 7 8 9 10 11 12	32222222	4	j W	e VeY É		took: in the noyals and Dig ing jit Ut 5 30 in slagsail
Course		Dist.	Diff. Lat.	Dep. Lat	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
931	We	90	·ym	46 11.	C. my	11.30 5 44 10158
H.	К.	н.к.	Courses.	Winds.	L.w.	Remarks Friday Jun 8th 18100
1 2 3	/ /	5 4	9010	NNE		Begins with light airs
5 5 6	2 2 2	<i>5</i>				and présas and weather all sail
7 8 9	20 33	4	0		•	pet to udvantage.
10 11 12	3 3 3	5				Middle park light breeze
1 2 3	2 3 3	4				a M jibed ship set the
4 5 6 7	2 2 2 3	4 5 5				Larlaard, studenss ails.
8 9 10	3 2 2					pleas ant.
11 12	2 3					précas ant.
Course,	-		4	Dep. Lat.	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
8 42	241	60	44	40 12	14	12.09 3 1.45 101.17

Kiram Putnam Masler

		Ch	ina		from	4	Tava towards Falem
	Н.	K.		Courses.		L.W.	Remarks Suturday Jan 9th 1819
1	1	3		SSW	ENE		C.
	2	2	5		NE		They under all nerels any
Ш	3	2	5		NNE		sul the wind being moder.
Ш	4 5	3			JIJY E		sur une nonce ownig nour
	6	3					ale and priced-and weather
	7	3	3				
	8	3	4				at 3, 30 P.M. took in jubs &
	9	2	4				
	10	2	5				staysails: at to dark and cloud
	12	1	5				dy took in the studingsuils &
	1	2	5				V ,
	2	2	5				flyma jil.
	3	2					2 7 0 3 1.
	4	0					Middle part light breezes &
	6	1	4		9 13 W	+	cloudy at wall squally
	7	1	7				
	8	2					with ponstant rown.
	9	0					
1	10	0					Emds calm.
i i	11	0					
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		K.	H.K.	Courses.	Winds.	L. W.	Remarks Sunday Jan 9th 1819
	1	0	н.к.	0 0	Winds.	L. W.	
		0 0	н.к.	Courses.	Winds.	L. W.	Begins with a calm and
	1 2	0	H.K.	0 0	VWinds.	L. W.	Begins with a calm and
	1 2 3	0	4	0 0	SW189		Begins with a calm and a heavy swell from the I'l
	1 2 3 4 5 6	0	4 4 5	Galm W13N	SW189		Begins with a calm and a heavy sure! Ot 3.30 P.M. a heavy squ-
	1 2 3 4 5 6 7	2 2	4 4 5 5	Galm W13N	SW189		Begins with a calm and a heavy sure! Ot 3.30 P.M. a heavy squ-
	1 2 3 4 5 6	2 2	4 4 5	Galm W13N	SW189	0	Begins with a calm and a heavy sure at from the SE a heavy sure all from the SM. I look in
	1 2 3 4 5 6 7 8	2 2	4 4 5 5 10	Galm W13N	SW189	0	Begins with a calm and a heavy sure at from the SE a heavy sure all from the SM. I look in
	1 2 3 4 5 6 7 8 9	2 2	4 4 5 5 10 4	Galm W13N	SW189	0	Begins with a calm and a heavy sure at from the SE at heavy square all from the S.W. look in all the light sails and to-
	1 2 3 4 5 6 7 8 9 10 11 11 12	00223112101	4455045	Galm W13N 9829 SW137	SW189	0	Begins with a calm and a heavy sure at from the SE a heavy sure at from the SM. look in
	1 2 3 4 5 6 7 8 9 10 11 12 1	002231121	4455045	Galm W13N	SW189	0	Begins with a calm and a heavy sure at 3.30 P.M. a heavy square from the S.W. look in all the light sails and taked ships to the S&E.
	1 2 3 4 5 6 7 8 9 10 11 11 2	002311210112	4455045	Galm W13N 9829 SW137	SW189	0	Begins with a calm and a heavy such at 3.30 P.M. a heavy some all from the S.W. look in all the light sails and taked ships to the S&E. Out 9 P.M. set the stay sails
]	1 2 3 4 5 6 7 8 9 10 11 12 1	00223112101	4455045	Galm W13N 98'29 JW139	SW189	0	Begins with a calm and a heavy such at 3.30 P.M. a heavy some all from the S.W. look in all the light sails and taked ships to the S&E. Out 9 P.M. set the stay sails
]	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3	002311210112	44550455	Galm W13N 9829 SW137	SW189	0	Begins with a calm and a heavy such at 3.30 P.M. a heavy some all from the S.W. look in all the light sails and taked ship to the S&E. Out 9 P.M. set the stay sails flying jit and M. royal.
]	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6	00223112101122122	44550455	Galm W13N 9829 SW139 9944	JW189	0	Begins with a calm and a heavy such at 3.30 P.M. a heavy some all from the S.W. look in all the light sails and taked ships to the S&E. Out 9 P.M. set the stay sails
]	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7	002231121011221222	44550455	Galm W13N 98'29 JW139	JW189	0	Begins with a calm and a heavy sure at from the SE at from the SM. look in all the light sails and taked ships to the SBE. Out 9 P. M. set the stay sails flying jit and latter parts lies.
	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 8 9	00223112101122122	44550455	Galm W13N 9829 SW139 9944	JW189	0	Begins with a calm and a heavy such at 3.30 P.M. a heavy some all from the S.W. look in all the light sails and taked ship to the S&E. Out 9 P.M. set the stay sails flying jit and M. royal.
]	1 2 3 4 5 6 7 8 9 10 11 11 2 3 4 5 6 7 8 9	0022311210112212223	44550455	Galm W13N 9829 SW139 9944	JW189		Begins with a calm and a heavy sure at from the SE at from the SM. look in all the light sails and taked ships to the SBE. Out 9 P. M. set the stay sails flying jit and latter parts lies.
]	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 8 9	002231121011221222	44550455	Galm W13N 9829 SW139 9944	JW189		Begins with a calm and a heavy sure at from the SE at from the SM. look in all the light sails and taked ships to the SBE. Out 9 P. M. set the stay sails flying jit and latter parts lies.
]	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10	0022311210112212223	44550455	Galm W13N 9829 SW139 9944	JW189		Begins with a calm and a heavy sure at from the SE at from the SM. look in all the light sails and taked ships to the SBE. Out 9 P. M. set the stay sails flying jit and latter parts lies.
]	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 11 11 12 13 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	002231121011221222233333	44550455	Galm W13N 9829 SW139 9944	SW189		Begins with a calm and a heavy such from the I'll a heavy squally from the I'll look in all the light sails and taked ships to the Its E. Oct of I'll set the stay sail flying jit and M. royal. Middle and latter parts light breezes and squally.
	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 11 2 10 10 10 10 10 10 10 10 10 10 10 10 10	002231121011221222233331D	44550455	Galm W13N 9829 SW139 9944	JW 18 9 No arcial Dep. La		Begins with a calm and a heavy sure the SE at 3. 30 P. M. a heavy squall from the SW. Look in all the light sails and taken ships to the St. Cot a P. M. set the stay sail flying jit and M. royal. Middle and latter parts light breezes and squally. R Lat. by Db. Varia. Diff. Long. Long. in Long. of Do.

	6,	hina		from	Lava cowards Salem
ñ.	К.				L.W. Remarks Monday Jan 11th 1819
1 2	2	. S	W139	98134	Begins with light bree
3	1				
5	1				res and pleasant all necess.
6 7	0				wry soil set. at a J.M
8 9	0	Has	m		in royals and flying jet.
10	4		15 W	due H	Ul 10 TM squally took
12	3	4			in Miren kop gal sail et 11
1 2	2	F	杨轻	E	
3	0		0.0.0	20	set Merin toh gut sail.
5	1	4 9	F W	188	Midsile prant light breezes
6	2	3 4			Is pleasant.
, 8	2	4			Latter part calm.
10	2				
11	0				P
Course		Dist. Di	ff Lat.	Dep. La	at. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
910	6 W	1	31	8	13. 41 5:04 9 99.51
H.	K.	н.к. Со	urses.	Winds.	L.W. Remarks Tues day Jan 12th 1819
1 2	0			Variable	Begins with a calm.
5 4	1	4 0	WIJW		ale 2 MM. light airs & pleus-
5 6	1	5	E 13 S		and all 8 T.M. tacked ship
7 8	1	4			to the S.E. at 10.30 to the W
10	3	1 1	E138		
11 12	1	74	293		Middle frant light breezes
12	2	5 5			& pleas ant:
2 3	3	3 3	的分		al 5 a.M. set the royals &
4 5	4				flying jib.
6	3				
7 8	3	5 74	13 823		6
9	4	5			Latter part précasant.
11	5	H	189		
12 Course	4		ff. Lat.	Den II-	by hy D. P. I. Lee hy Ob. I. V.
74	-		/H	.1	13 , 54 13 , 56 5 40 47 9904
					7 1 990 4

Hopram Pulnam Master

	En	hin	a a	from	0	Java	towards Salem
Н.	K.	H.K.	Courses.		L.W.	Remarks	Medres duy Jan 13th 1819
1	4		WBF	F13 W.		B	
2 3	4					edeg	rus with moderate
1 4	4	5				breezes	and pleasant weather
5	4	4					
6	4	3				all m	recess any soul moud.
7	3	5				~	
8 9	U					Jeople	mhored in geting in-
10	4					borrel	the anchors &.
11	3	4	WYW	due I			0. 11
12	3					GL. 2	I'M paus a pail sta-
1 2	3	4				ndina	to the Westerard. all-
3	4		WBY	S13W	1		
4	3					9 took	in storysails.
5	3	3				1,	
6 7	3	11	THOSE	- 0 _		collin	delle & latter parts pleasa-
8	4	4	NJW	south?		nt brus	res & pressing clouds.
9	4	5	18W139	9432		,0102	
10	5						
11	5						
10	4		TX: M	7) 1-		1) I F	OLLY LIDER
Cours		Dist.	Diff Lat.		t. by D	1	
934	0 14	95	38	87	140	4 18	41 5,40 40 97,34
Н.	K.	н.к.	Courses.	Winds.	L. W.	Remarks	Thursday 2 Jan 14 th 819
1	4	4	WSW	South		6	
2 3	4	3				1	nmences with fine file-
4	5					as ant	weather and moderate
5	5	6	W /3 52.	8928		1	,
6	5	4	WYW	du d	7	breezes.	all necessary pail set
7 8	2	4	WJ W	and J		Mi	talle part fresh breezes.
9	5	4					
10	5	u	WBS	9188		at 4,	30 F.M. breez freshning
11	4	0	416-6911	2	,	ł	
12	5	Ψ	WfW	pouth	1	took	in the Royals and fly-
2	6			, =		ima i	1.
3	6	4				ing for	
4	6	4					
5	7	3				P	
6 7	6	5				Is at	ter part fresh breezes and
8	~					peas an	et.
9	10	4				1	
10	4	4					
11	5						
12		10	Diff I as I	Dep I I at	ho D	R Lat bu	Ob. Varia. Diff. Long. Long. in Long. by Ob.
Course		ist.	Diff. Lat.	Dep. Lat		. 1	
6	7 1	38	53	127	152		5 /32 95.22

	C th	rvii	/	from	2	Juv w	towar	ds :	Palim	
н.	К.	н.к.	Courses.	Winds	L. W.	Remarks	Trickay	(J.	ur 15 h	18 19
1 2	5	5	W 13 Sz	f Sow		Bea	ins wi	th)	Pares Par	Lacres
3	6	6				. //			1	
5	6	6					loudy,			all mec-
6 7	5	5				efs any	sail	mue	al.	
8 9	6	6	WIW	South		11				
10	7	7				Me	ddle p	rart-	fresh	bruses
12	7	7	9			and	theas and		V .	,
1 2	5	5				/	M p		1 14 100, 0.	l cond
3	5	5				43 4		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.1	a vea
5	5	۶ ~				glying	11		A 1	
6 7	10	7				1	atter in			
8 9	6	6				and f	rafsing	1 gr	ialls.	at 8.30
10	6	4		2.200		1	set for	-		
11 12	17		W 13 92	I IS E		ings wil	! At 10	1.001	le in p	ail
Course		Dist.	, 1	Dep. La	t. by D.	R. Lat. by C		f. Long.	1	Long. by Ob
968	4/	62	60	149	- Parker in the second	15.59	11 1		/	
Н.	К.		Courses.			Remarks	Palur-a	sy/	Jan 1	6th 18 19
1 2	my	6	WK 919	188		B	egins p		2	1 has
3 4	my	4	·			6	1		1 1	<u> </u>
5	Ly Ly	3					ed fraf			
6 7	77778	4				1.			Λ	eers fres-
8 9	7	10				hning	· look	in 1	hore an	nd moran
10 11	8					J. 8	. sails.			
12	8									
1 2	7	6					£1			
3 4	778	6				11	dalla	/	0 110-	
5	7	4				1	dolle or		/	
6 7		6				perong	breers	18,	cloudy	
8	7788	6								
10 11		4								
12	8	6			ł					
Course	-	Dist.	Diff. Lat.	1		R. Lat. by (iff. Long	1 0	Leng. by Ob.
J M	海	85	59	91	16.,5	Y	2	174	89.5	3

Hiram Putnam Master

	it	Ehn	ina	from	C	Pava	towards Salem
Н.	K.	H.K.	Courses.	Winds.	L.W.	Remarks	Sunday Ton 1my th 1819
1	8	,	M 73929	FFE		S.F.	
3	8.	5				,	h under all perefeary said
4	8					with,	fine fine breezes & pleas-
5	.8	4				C	Deather.
6 7	8	5					
8	111	8				lill my	I.M. set main top must
9	17	4	·			/	
10	8					,4	grail. Ut 9.30 IM. sel
12	8					muin	& miren lop most slocys ale
1	8						
3	8 mg	15				301 11 0	P.M. set the Al Sivyal & fl
4	8	5.				ung je	· 6
5	8					0 1 3,00	
6	8					Mu	delle frank stong breezes to
8	3						/
9	8					RALCEL.	at b. a.M. set the lower
10	8-	14,				sinden	rdail.
11	8.	5				()	nds strong virered & preadont
Course	9	Dist.	Diff. Lat.	Dep. La	t. by D		Ob. Varia. Diff. Long. Long. in Long. by Us.
960	7:17	19.24	my . my	1	18/10		6" 140 86,43
			/ /				
H.	K.	H.K.			L. W.	Kemarks	Monday Jan 18th 1819
1 2	8	2	WBS25	J.J. E.		. B. C.	uns with strong brevis &
3	9	4					
4 5	9	5				pujsing	clouds, all nerejs way suil
6	8	4				moull.	
7	8	4					
8 9	9						
10	9					Mid	de part strong breezes &
11	9	5					
12	9					pajson	ry clouds. At 5 A.M. set
1 2	9					4	tot must sluding sail.
3	9 9 8					Jose ,	we seemy sure.
4	8-	4					
5	8					8	de Mariana la
7	9	3				Q.M.	ds strong gales and cloud
8	9	5				dy) wie	cuther.
9	9	4					
10	G	5				o with	w her to ye 3° to the I of cour
12	G	5					
Course	1 /	Dist	Diff. Lat.	Dep. La	it. by I). R. Lat. by	Ob. Varia. Diff. Long. Long. in Long. by Ob.
964	why:	2:104	45	195			6 207 82.16
				1 1			

		E	him	ia .	from	Ju	ra ·	towards I	Valen
H		К.	н.к.	Courses.	Winds	L. W.	Remarks	Juisday 29	un 19 42 18195
	1	4	5	W735	48 134		D.		<i>j</i>
		9	5				A OW	mances , wit	in strong bie
4	1	4	6				, ones is	closely all	precis iny said
		0,0	6				set:	V	, y p ,,
	7						,	7) 11 G	
	3	40	5				llt 8 2	.M. look	en jore lop
10		to	1.	and the state of t			mist ,	theretory sail	
12	2	G	6				Ul 10 0	PM stems	e breezes is say.
]		4	4					//	7
3	1	9	6				undly to	oute in you	& moren J.
4	1	0	7				G. Jails.	& small 15	ested the span
6		4	4				teer.		
7		<i>G</i>	4				11.		1 ,
8		0,5	ĵ				e, bled	die and the	l'en pravis stron.
10		9	5						ill lit.M. see
11		9	5				5 % m.		
Cou		7	ist.	Disf Lat.	Dep. Lat.	by D. i	R. Lat. by Ob.		Long. fn Long. by Ob
j'	73	2	241	44	2/4		1	6 227	1
A.		K.	H.K.	Courses.	Winds.	T W			Sun 20 th 1819
								Door to detect, ()	our 20 1019
2		999	4	WIBY	7 5		Bey	in with	strong breezes
3		9	6		e delle		11	/	ii - ·
5		ic.	re				1 1	· · · · · · · · · · · · · · · · · · ·	is, set the fore
6		0	6				toh mis	of steering.	seil.
8	1	0	4				Ul 10 2.	M. woll	in the moves
9		9	6				1.1. 2.1.2	1 7 7 7	
11		999	7				who gat		0
12		9	16			·	: Medi	the part,	strong bree-
2		4						paysing pe	-
3	1	9	My I					1 1. 1	
5		9	4				>		
6		4	6				Lat	ter fruit	streng breezes
8		9	4				Am 2/	12	1
9		90	6		20			lane une	y ular sea
11		10			SE139				
12	1	9			•				
Cour		1		1	1		R. Lat. by Ob.		
7	3	2.	30	67	229 2	0.09		6 2/5	255

	6	ani	îl .	from	19	uu towards Filin
Н.	K.	H.K.	Courses.	Winds.	L.W.	Remarks Jikhoway Dan 21st; 8145
1 2	4	2	WEF	JÉ		Boins with stand breezes
Ś	4	i				
4 5	U, U	6				and aboutly weather with a h
6	10	(ich origination
7 8	10					Witch smillowed in worming
9	4	4				
10	10	(the smeet outies Il 1:30 Firm
12	4	4				set fire said ner on tok gul sa
2	4	5				ics. let 10 I. il soundly look
3 4	4					
5	4					on fore and M. J. gal sails.
6 7	4	4				Muddie west beller provis str
8	1 4	• 6		1		ony brieves and praping squalls.
9	Ç	5				
11	8	5				
Course	7	ist.	Diff. Lat.	Dep. La	t. by D	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
my		224		214 !		1 21 25 6 235 71,00
H.	К.		Courses.			Remarks Friday ? Sur 22 d 1819
					L ogW o	nemarks Sireacogy July 22, 1879
1 2	9	6	WEST	848		Commences with shory
3 4	9.9.9	4.				
5		6				vrevies and squielle with a lo-
6 7	0.49	4				no filleway sin. al y I'm
.8	9	10				love in fore and miren toh
9 10	9	6				gui suits Ul 10 P.M. rested
11 12	9	5-				miren who sail
1	9					
2 3	99	4				. Middle part serono bree-
4	9					Tes wind significal.
5 6	9					Emis fine beer es & believes-
7	9			SP E		U
8 9	999			111		unt. Vany. I allow bo as usua
10	8	6				
11 12	8	4				
Course] D	ist	Diff. Lat.	Dep. La	t. by D	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jb.
37	77	219	49	2/3		23.24 79 230 64.10

Ship Chine

	·	Chu	rux .	from	c Jan	שעי	towards Salem
H.	K.	н.к.	Courses.	Winds	L. W. 1	Remarks	Suturday Sun 23 1819
1	9	6	Trest	948.		Pr.	and the state of t
3	4	6				2 huh	under all necessary sa
4 5	9				i	t. bec	eno pleusant weather &
6	6					hapine	e proceeds. Ilt 1 Dall sq.
7 8	4	5			1 1	/	, , , , , , , , , , , , , , , , , , , ,
9 10	9	4			1 1	. (-	took in the royals &
11	9	4			1	/ .	jd. Ut 8 P.M. work
12	9				10	100	re lop Must studingsail
3	8	0				Ma	didle purt strong breezes
4	8	64				Monde	ed with sawits look.
5	8	6			1 1	_	<u> </u>
7 8	9	4	•		1	/ .	il mail sail as merelsa.
9	9	0					ler priest précies and maid
10	8	5				all s	ail necessary.
12	Ģ						v v
F 49	A 2		Diff Lat.	2/2 Lat	by D. R.	Lat. by 0	0b. Varia Diff. Long. Long. in Long. by Ob
		To the second				1	
H.					L.w. R	emarks	Fundary Vin 24 th 1819
1 2	8	0	West	J.S.G.		7 B.	igins svilla strong bree
3 4	9	21				1	, , , , , , , , , , , , , , , , , , , ,
5	90	4					ed puisong clockets.
6	9	4			L	U 8.	I. M. single reefed
8 9	9				,t	the t	up sails. Ul 9.30 P.M.
10	8						miren top gal sail.
11 12	8	5				//	
1	8					Cilla	delle & latter parts str
2 3	8	4			Ü	ng b	breezes and squally.
4 5	7	6					<i>V</i> .
6	7					De ma	cetion per wormouth 10°W"
8	M	5					The second of th
9 10	15	5					
11	6	6					
Course.	6 D	6 ist. 1	Oiff. Lat.	Dep. Lat	by D B	I Lat. by O	Ob. Varia. Diff. Long. Long. in Long. by Ob.
Juy 4	學人		39	186	J, 12. 14.	1	9b. Varia. Diff. Long. Long. in Long. by Ob.
	1	1				1	100,00

	/	Who	mw	from		Tura towards Salem
H.	K.	н.к.	Courses.		L.W.	. Remarks Monday Ian 25 th 1819
H. 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6	K. 7788888788788788	5 7 46 3 3 6 4		From South		Commences with strong breezes and cloudy, all necessary sail set: Ut 2 T. M. love, in fore lap must studing sail. Variation per Uz at 7.17 a M. West 13:. Middle and latter parts string breezes and pleas and.
-	8 8 8 8 8 8 9	14 6 4 Hist. 93	Diff. Lat.	1804	. by D	O. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 24705 14 207 51,25
H. 1 2 3 4 5 6 7 8	K. 8 4 4 8 9 9 9 9 9 9	H.K. 4 3 3 5 6 3	Courses. West W2.9	Winds.	L. W.	Remarks Dursday Dan 2 11th 1819 Begins with fresh bree- res and light fragsing cioud. Ill precessary sail set. At midnight took in main
9 10 11 12 1 2 3 4	0.0.0.0.00.0	06 60				top mast slagsail being all- inded with light squalls &
5 6 7 8 9 10 11 12	999999999	4 4 4 4 6 st	Diff. Lat.	Dep. I Lat	by D	S. file as int. Diff. Long. Long. by Db.
5	3/1 2		7 5°		25., °	

10 9 5 11 10 12 10 20 10 11 10 10 11 10 10 10 10 10 10 10 10		Ohio		<u> </u>	- 1	la l
The Korres Breeze Brook of Breeze Brooks Breeze Breeze Brooks Breeze Breeze Brooks Breeze Breeze Brooks Brooks Breeze Breeze Brooks Brooks Brooks Breeze Brooks Bro			(
Bommences with strong breezes and browy, all nece. breezes and browy, all nece. breezes and browy, all nece. breezes and squally look in top and squally look in top gai sails sma single reefed the Lop sails. and squally look in top gai sails was single reefed the Lop sails. at 3 a. M. double reefed the I sails. Var H. 3 v. Latter have strong breezes and hary. Latter have strong breezes. Begins with strong breezes the gain so the strong breezes. Begins with strong breezes the git and double reefed the spend of the spend it. At 10 B. M. look in the spended it. At 10 a.M. down broyal yeards. At 8 percent of sail. Begins received the main sail. Shanded it. At 10 a.M. down broyal yeards. At 8 percent weeked the spend of sail. At 10 a.M. down broyal yeards. At 8 percent of sail. At 10 a.M. down broyal yeards. At 8 percent browns are selected to sail. At 10 a.M. down broyal yeards. At 8 percent browns brown broyal yeards. At 8 percent browns brown broyal yeards. At 8 percent browns brown browns brown brown browns brown browns brown browns brown browns brow	ii. h	Н.К.	-		L. W.	Remarks Wednesday Ian 27 H218
and squally look in top gai sails and single prefer the look sails and single prefer late of sails. Was the sails and have sails and sails	3	6 6 6 7	west	778		breezes and havey, all nece- fs ary sail set.
the Lote sails at 3 a. M. double resid the of sails. Var 10,34 Latter hart strong breeze and hary 11 1/0 12 1/0 11 1/0 12 1/0 11 1/0 12 1/0 11 1/0 12 1/0 11 1/0 12 1/0 11 1/0 12 1/0 11 1/0 12 1/0 11 1/0 12 1/0 11 1/0 12 1/0 11 1/0 12 1/0 12 1/0 13 9 8 1/0 14 1/0 15 9 8 8 1/0 16 8 8 8 1/0 17 9 1/0 18 9 1/0 19 9 8 1/0 10 8 5 1/0 10 8 5 1/0 11 9 6 1/0 12 9 4 1/0 13 9 4 1/0 14 1/0 15 9 8 1/0 16 8 8 1/0 17 9 1/0 18 9 1/0 19 8 5 1/0 10 8 5 1/0 10 8 5 1/0 10 8 5 1/0 10 8 5 1/0 10 9 6 1/0	9 / 10 / 1 /	10 4				and squally look in top
the of sails. Var He, 3 y Latter hart strong breezes and harry Dist. Dist. Dist. Dep. Lat. by D. R. Lat. by Ob. Varia. Dist. Long. In Long. by Ob To 3 & 229 by 219 26 36 26 40 17 244 48.30 11. K. H.K. Courses. Winds. L. W. Remarks Thursday Fan 28th/8/ 1 G b West Ff E Begins with strong bree res. Ut 10 P. M. Look in the jet and double reefect the jet and double reefect the jet and double reefect the spainten. At mednig- he resed the main sail 8 handed it. At b a. M. down boyal y ands. At 8 class reefect T. sails. At 9 G 8 G 9 G 9 G 10 G 10 G 10 G 10 G 11 G 12 G 13 G 14 G 15 G 16 G 17 G 18 G 19 G 10 G	2 / 3 4	10 9 5				the top sails
Course Dist. Dist. Dist. Dep. Lat. by D. R. Lat. by Ob. Varia. Dist. Long. Long. h Long. by Ob 1 mg 29 6 mg 2/9 26 36 26 40 1 mg 244 48.30 11. K. H.K. Conrecs. Winds. L.W. Remarks Thursday Fan 28 H2/8/1 1 G West FG & Bayins with strong bree 2 10 3 9 6 10 10 10 10 10 10 10	6 7 8 8 8 8 9 10 11 /	9 4 5 4 5 5 5	res			the I sails. Var 10.34 Latter pare strong breeze
Begins with strong bree 3 9 6 4 10 5 9 6 8 8 7 9 8 4 6 9 8 10 8 8 11 9 10 8 8 11 12 9 10 12 9 10 12 9 10 14 9 10 15 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 10 10 9 1	Course.	Dist. W 229	10 mg	2/9 2	63	6 26 40 17 244 48.30
the jet and double reefed the skunker. At medneg- int respect the main sail the skunker. At medn	2 /1 3 4 /1	0 6				Begins with strong bree
12 9 4 3 9 4 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7 8 9 2	9 6				the jil and double reefed the strunker. At mednig-
4 9 4 5 9 6 9 7 9 8 9 10 9 4 11 9 6 12 9 4 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob	11 d 12 d	999 5				& handed it. At to a.M.
10 9 6 11 9 6 12 9 13 2 2 13 2 2 12 12 12 12 12 12 12 12 12 12 12 12	3 6 4 6 5	9 4				piese rected F. sails. Al
12 G G G G G G G G G	10 9	6				Ends strong liveeres &
The part of the pa	12 9	1 4		1		
5724224 69 218 27.40 18 244 4434			1			

	E.	himi	from	· lava towards Fuenn
Н.	K.	H.K. Courses.	. Winds. L.W	w. Remarks Friedry) Sun 24th 1814-
1 2	8	3 74/13 NA	VYBE	33
3	in	5	& Variable	Besins with strong gates
4	7			und a high moss sea.
5	7	5 8/370		
7	10	2 2 (3 11)		Alt 2.31 3. Mr. respect the fore
8	3			suit and francis the main
9	4	WXAV		
11	4	4 4 4		sail. At 10.30 5 M. set the
12	3			reefect et sail.
1	4	Nit W'r	W	
3	4	VB T	r	Alt mednight let the reef
4	3			out of the fore sail &
5 6	3	4 du N		1
7	3	4 84184	7	sel the nuren top sail.
8	3			Ends more mare moder
9	3	JWB WE	W	
10	2	5		ale maid sail as necessary
12	0)	Prechla		
Course		Dist. Diff. Lat.	. Dep. Lat. by	y D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jo.
186	4 4	2 10	99 27.	1.30 24.49 18 112 4238
Н.	K.	H. K. Courses	. Winds. L.	w. Remarks Faturday Jan 30th 1810
1	4	4W13	HIJWIBH "	
2	4	2		Begins with moderate
3 4	4	4		breezes and pleasant ma
5	5	1 // 1	43341	
6 7	5	7 W.S. 4		id all sail necessary.
8	6	2 1101 7		
9	4			11 111
10	5			Meddie part squally los
12	5	55		in slaysals and fore & mi
1	6	10		ren totr gar sals.
2 3	m	0		
4	80.008			al 7.30 il. M. more streetly
5	á	2 5	South	breezes set the FIF & sail.
6 7	9	3	88	
8	9		37 8	Ends strong breezes &
9	9	4		√ / ·
10	9	4		precis ant.
12	19	6		
Course	: 1 1	1	Dep. Lat. by	y D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Db.
Fe .				

		Ch	irra	from	Tiva comads Galern
Н.	К.	н.к.	Courses.	Winds	L. W. Remarks Sunday, 13 an 31 st. 1819
H. 1 2 3 4 5 6 7 8 9 10 11 12	K. 9.99999999999988882.88887.86 D	H.K. 65 446 466 55 466 41 66 3 ist. 106	Diff. Lat. O O Courses.	Winds 998 Winds.	
Course,	8	ist.	Diff. Lat.	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
	-				Tong. in Long. by Ob.

Kiram Putnam Master

	t	Phi	na	from		Turu towards Paiem
н.	K.	н.к.	Courses.	Winds.	L.W.	Remarks Tuesdeur Loca 21
1 2 3 4 5 6 7	88888	2 600	WBY	South		Bigins with good breez. 2s and plies and.
8 9 10 11 12 1	087 2 2 2 0	4 4 3 ~		JS E		Middle part moueraie bre eres and squidly attended wo the small rain.
2 3 4 5 6 7 8	0000000	5 4 3 4				Varriation nor ar 25.06 At b A. M. set fore tob mass studing sail and ma- in top 3 at studing sail
9 10 11 1 ,			Diff. Lat.			Ends pileis and the necessary. sail set R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jo.
55	Park and the second sec		104 Courses.	Winds.	L. W.	Remarks Wednesday Feb 3 a 1810
1 2 3	600		Wig F			Begins with moderate
4 5 6 7 8	10 mm	3 4				breeres and pleasant all nec.
9 10 11 12 1	7777	50044			•	and pleasant.
2 3 4 5 6	8 8 8	4				at 4 a. M. set the start- oard sinding sails and took fore and miren top gal sails
7 8 9 10	8 8 8	2 446				Ends préeas ant all sail set advantage.
12 Course 9 54	8 Di		Diff. Lat.	Dep. Lat.		R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 30 /72 27.2/

		6/ru	ni	from	Tava cowards Salemo
H.	K.	н.к.	Courses.	0	L. W. Remarks Thurs clay Tel 4th, 819
1 2 3 4 5	8 8 7 5 3	2 .40	71.25	E.1 E NE13E WW71	Begins nith strong bree
7 8 9 10 11 12	5 3 5 5	5 5 5 5	di W	Hisi-8	e ed the yards. "At m I M
1 2 3 4 5	3 3 3 2 2		NI WET NI WIN		and W let 10 30 took in top y at sails and reifed the spra. nker. At v a M let a
7 8 9 10 11 12	3 3 4 4 4 5	4	WEN THEST		reef from the top sails and set the stansails.
H.		~5	Diff Lat. 33 Courses.	1	5 5 9 30 80 20.01
1 2 3 4 5 6	6.2-2-5-5	4 5 5 5	がない	SS E	First part good breezes & preezes ary sail
7 8 9 10 11	8 8 7 15 5	5		South	at 8 I'm presh breezes and passing squalls, took in the
1 2 3 4 5 6	6 45 5 5 5 5 5 5		W 13N	IWZ TVA Variavie	light sails. lié 4 le M. saw a ship
7 8 9 10 11 12	10 my 12 my 12	4/1	W13N2N W13N W2N		Latter hart fresh breezes & passing clouds.
64	Di //0		7.4 9	- 1	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.

	1	Thi.	na	from	C C	Pava towards Salem
Н.	К.	н.к.	Courses.	Winds.	L.W.	Remarks Fel w th 18:19
1 2 3 4 5	8 8 8	4	WIN	JB W Bouth		breezes and squally: ill 1,33
6 7 8 9 10 11 12	2-2-2-2-3-3	5 00 44		J'E		Sails. look in all the light sails. Il y and Mi set the Royals and fore the mast studing sail.
1 2 3 4 5 6 7	アクストラスト	2 4		3		res set the fore regue and lower studing sail. Ends heras and maid all sai
8 9 10 11 1 Course	- 5	Dist.	NW BT	Dep. La		Jon. W lo 8. D. R. Lat. by Ob. Varia. Diff. Long. Long. 10 Long. by Jo.
783		1	22 Courses.	}		35 41 50 223 10.29 1. Remarks Feb 7 16 18 14
1 2 3 4 5	88999		I W	SE	L.W.	Begins neith strone bre
6 7 8 9 10 11 12	999000000000000000000000000000000000000	4	SW 13 V			Me y I'M strong brevses und cloude book in top al stud- ini sails Ul & I'M, in
1 2 3 4 5	10 9 10 10 0	:	NW			larbourd main top mast ste dine sail. Middle und taller parts
7 8 9 10	7999999	5 4	V, W			strong breezes of précas ant und long following sex.
Dourse Loss		Dist 1	Diff. Lat.	Dep. La		D. R. Lat. by Jb. Varia. Diff. Long. Long. in Long. by Jo 25 25 0 15 15

		Eh	ina	from	Juriu cowards Sulem
н.	К.	н.к.			L. W. Remarks Fis. 8 th 18 19
1 2 3 4 5 6 7	9494949	63465	WKW	IBW Fouch	Begins with fresh gales
8 9 10 11 12 1 2 3	9940,994	6 6 2		J É	evses and small squalls of pain.
3 4 5 6 7 8 9 10 11 12	10 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	00004	C4 74		L'aller part strong breezes. Nove it suppose the current to have set hir 10 to the Wisland
Y 5	34.	228	Courses.	182 .	it. by D. R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob 32. 08 32.12 25 21 1138 L. w. Remarks Flog Un 1819
1 2 3 4 5 6	10 10 10 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6	NVW2V	VÝ 13 E	brices and cioudy with sm
7 8 9 10 11 12	4 9 9 9	46			Middle part strong bre.
2 3 4 5 6 7 8	99989998	5			l'assistion per wi 23. 46
9 10 11 12 Course	8 0 1		Diff. Lat.	1	tt. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
		22	130	179 8	30.02 24 229 8.09

Herram Putnam Mouster

	lo	his	na	from	2	Terra towards Salem
Н.	К.	н.к.	Courses.	Winds.	L.W.	Remarks 321 10 th 18 19 ~
1 2	998	C	NNW2 Y	TYTW		Ull sail expanded that
3 4	8	3				
5	88	24				well draw, the weather be
6 7	8	4				ing fare and pleasant.
8 9	8	4				4.4.
10 11	7	4				Midale purl moderale br.
12	M					eures and a smooth sea.
2	7	5				
3 4	6	5		149.		
5	760	\$4.				al 7,30 a m the variation
7	5	4				,
8 9	4 5	4		WAY		mas 22.06 West
10 11	5	5		71 75 4		Emols pleasant.
10	4					·
Course N 50		ist.	Diff. Lat.	Dep. La	t. by D	1. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
н.				1 1		Remarks Feb 11 th 18 19
11.	6		Courses.		L.W.	
2 3	6		NNWEY			Begins with moderate bre-
4	6	4		SE 13 8		eres and fine weather all sa
5 6	6	4				il set la advantage.
8	in	4				Variation at 8.21 West: 20,54
9 10	7	6		·		
11 12	7777	6				
1	6	6				
2 3	6	4				11.
4 5	6	6				Middle and latter parts
6 7	7	5			,	moderale breves und pleasant
8	76	4			ji.	all sail set to indivintage
9	5	5				
11	5	4				
Course	D	ist	Diff. Lat.	Dep. La	t. by D	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
N50	W/	58	99	110 3	363	m 21 123 3.41

	l	This	na	from	0	Tava towards Salem
Н.	К.	H.K.	Courses.	Winds	L. W.	Remarks 3 16 12 1h 1819
1	2	40	NNW2	W. W 13	Y	B
3	7	W.				Begins with moderale
4 5	8	4		WY W		breezes and fine meather
6 7	8	6		9 W		all necessary sail sel
8	8	W				Ut. 2 P.M. set fore and
10	8	4		Annual Processor Cases and		main lop sal sline sails
12	8	4				Ut 1 a. M. sel lover and
1 2	16	5		South		
3 4	6			44 %		mæin lop mast studing
5	7					
6	7	4		JE 15		At 3 A.M pet planbourd.M
8 9	6	6		ial le.		lop ful studingsail.
10	5	5				At 4 jibed ship.
13	6					Ends pleasant.
V 11/2	1 1		119			R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob 24345 20 140 2.21
ii.	K.	н.к./	ourses.	,		Remarks Til 13 th. 1819
1	6		NW2 W			
2 5	6	2	or pref p			Commences with light
4 5	6	4		98138	2	breezes and pleasant all sai
6	6	6				sel la adventaire.
7 8	77	46				lu & F. M. took in star-
10	my	6				
11 12	7	6				board studing sails.
1	6	6				Variation per arm 20.10 W.
3	0	4				Ends light breezes and
4 5	ly ly	6				pieas and.
6 7	7					
8 9	76	6				Note I suppose the ship has
10	5	5				yone to the W of course for which
11 12	5	4			1	I allow 3°
Nonse.			1	4 1	by D.	
850	"	1		20 2	3.05	20 130 0004 test

Hiram Putnam Master

	1	bhi	na	from	Q	Tava towards Salem
Н.	K.	н.к.	Courses.	Winds.	L.W.	Remarks Tel 14. th 1819
1	U	OH	HW2 YW	998		Commences and ends with
3	4	6		100 0		6. 0
4 5	5			I E an	t	fine breezes and pleasant all
6	6	4		00.000		sail expanded that will
7 8	6	4				draw:
9	6	6				
10	6	4				
12	0	4				
2	7	6				
3	10	6				Variation per az m 19.36.
5	6					14.34.
6	6	4				
8	0					Note; I allow her to have you
9	0	6		YSE		3° le the Westward of her course.
11	6	4				3 is the messee of her course.
12 Course	6 i	4	Diff. Lat.	Dep. Lat	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
N50		16	93		2/,3	
Н.	K.	1. K.	Courses.	Winds.	L. W.	Remarks 726 15 th 1819
1	6		WW3 4	1998		Ship under all sait before
2 3	7	4				
4 5	7					the wind.
6	7	0				Variation per az 19° 18' Wast
7 8	8					al 10 F. M. Look in lop gal-
9	7	6				• /
10	8	7				suils
12	8	5				Middle part fresh breezes
2	8	4				and squally.
3	8					
5	8					Ut & set top gul I sails Latter hart jresh breezes &
6 7	8	4				Latter hart presh breezes &
8	7	4				pleas ant.
9	7	6				Note) I allow 4' today Weslivard
11	7	4				and the state of the state of
12 j	7 Dis	4	Diff. Lat.	Dep. Lat.	by D.	R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Db.
	W 18		110		19.4	

	,	Chi	ina	from	Ta	va	to	rvar ds	Jale	m	
II.			Courses.						Δ		
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	こうし アナイナアナイナー あのかんというしょうしゅんし	44 4 44 6 6 4 46 6 1	Diff Lat.			Be seands It 3 and ails. Mine	fore little	prica prica prica frat l. set and and prer prer	h st sant will will the mover latter	trong all strang span log las an uth ,	sail rker h grad els
II. 1 2 3 4 5 6 7	K. 6 5 6 5 6 6		Courses.	Winds.	l d	bom reez cs	men ini fore	the	with as and win	mode all	sail
8 9 10 11 12 1 2 3 4	6555544444	76	VW 13 W			Mia	'áli	mid	t the latte	r po	ırls
5 6 7 8 9 10 11 12 Course.	4455555 55556		Diff. Lat.] 1	Fouth	фо ру D. R. I	r wh	ich I	Diff. Lor		in Leng	

Horam Putnam Master

	- /	China				towards Falem
Н.	К.		_		Remarks	Jel 18:19
1 2	5	6 18142	NJJE		Bu	ins with line breezes
3	6				6	fréeasant all sail esch-
4 5	6				and	preasant all sail esch-
6	6	4 NWB	10		anded	before the wind.
7 8	6	4 NW 13	ey			
9	6	V				
10	0					
11 12	5	4				
1	4	5			11.	
2 3	4	5			Mull	and pleasant
4	4	4			breezes	and pleasant
5	4	4			C'	
6 7	5	4	,			
8	0					
9	Ś	6				
10 11	5	5				
12	4	5				
Course			1	at. by D		y Ob. Varia. Diff. Long. Long. in Long. sy 03. 30 16/5-108 10,36
5	2 /	29 74	104			
Н.	K.	H.K. Coarses	. Winds.	L. W.	Remarks	Jel 19 1h 1819
1 2	4	3	N9813	7	l E	mmences with fine
3	4	3			2	
4 5	4	14			1	and pleasant all sail
6	5	6			esende	ed before the wind.
7	4	4				V
8 9	4 5	4				
10	5			2		
11 12	5	5			· Mu	ddle und latter parts
1	4	5			Lican	breezes & pleasant
2 3	4	3 3			Julie .) of the first way to
4	4	3		1		
5 6	4					
7	4					
8	4					·
9	4					
11	4					
12	4		1	i	D. L.F.	by 1b. Varia. Diff. Long. Long. in Long. by Ob.
Course	· 4	Dist Diff. Lat	. Dep. I	Lat. by I). R. Lat. 1	by b. Varia. Diff. Long. Long. in Long. by Ob. 10 88 12,06
133	7	104 59	1 2 3.	140		

		Ch	irea	from	Si	er il	cowards Sulem
II.	К.					Remarks	Sil 20 th 18100
1 2	4		VA 13 7	SEB 2			
3 4	44					2 0	ins with modinate
5	3	0		**			o and fine weather
6 7	3	6		,		all m	ecessary sul maid.
8 9	4						<i>O</i>
10	3	4					t.
12	3					Mia	dle and latter parts
1 2	4					with	breezes and clear ple-
3 4	3	4				/	weather.
5	3						/
7	3	2				Jeogn	le employed in pain
8 9	3					ling	the ship.
10	3	5				•	•
12	2						
Course 15	27		Diff. Lat.	Dep. Lat.			b. Varia. Diff. Long. Long. in Long. by Ob
Н.	К.		7			[
1			Courses.	Winds.	L.W.	Remarks	Jel 21 st 1810 -
2	2		W BUN	5 7 735		Esm	rmences and ends ne
3 4	3	5					het buezes and pieus
5	3	4				-	il sail set
7 8	4	4			7		· ·
10	4	4				violate	employed in painting
11	4					the si	reh.
12	4	5					
2 3	4 5	6					
4 5	5						
6	5	4					
7 8	5						
9	5	3					
11 12	5	2					
Course.		ist. 1	Diff. Lat. 1	Dep. Lat.	by D. R	R. Lat. by Ol	o. Varia. Diff. Long. Long. in Long. by Ob.
	11	-					
146	71/1	13	70	73		12 20	

Kiram Tutnam Master

	P	Chi	na	from		Tava towards Salem
Н.	K.			Winds.		. Remarks Tel 22.d. 1819.
1 2	4	27	NWB.N	SEBJ		Ship under all sail that
3 4	5	4				will draw the weather being
5	5	4				1
6 7	5					clear and pleusant.
8	5	5				
9	5	5				
11	6					Middle and latter parts fine
12	4	5		,		
2	5					breezes and pleasant:
3 4	5	·				Teopie employed in paint-
5	5	6				ing the ship.
6	5					ord with prayer
8	5					
9	5	2				
11	5					
12 Course	5	Dist.	Diff. Lat.	Dep. La	t. by D	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
1840	9 W	i	80	42		12,10 14 95 16.07
H.	K.	н.к.	Courses.	Winds.	L. W.	v. Remarks Jel 23 d 1819.
1	5	4		19813Y	_	
2 3	5	4				Commences with moderate
4	5	4				breezes and fine pleasant we-
5 6	5	5				ther all necessary sail set:
7	5		•			People employed in panlin
8 9	5					
10	5	10	•			the ship.
11 12	5 4	6				
1	4	5			,	Middle and latter parts
3	4	4				
4 5	4	4				moderale breezes and pleasant
6	5					
7 8	6					
9	5					
10	5	4				
12	5	4				
Course	1	Dist	Diff. Lat.	1		D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Db.
456	52	/22	68	94	9 2	52 13 46 17 43

		Chini	Y.	from	Java	α	towar	ds (Palem	
G.	К.					marks	Feb 24	the !	8710~	7
1 2 3 4 5 6	5 5 4 5 5 5 5	6 0	BLY	TEGS	po	leas a	ins name all	eathe	r. ano	l light
7 8 9 10 .1 12	55555665	4 5 NW	5 N	n			empe the sh	I	<i>U</i>	The state of the s
2 3 4 5 6 7	5555556	6000000		,	y'c	Mu	delle a breeze	rd.	latter d ple	frants as and
9 10 11 12 Course	110		Lat.	Dep. Lat	1	Lat. by Of). Varia. Dis	ff. Long.	Long. fn /9,23	Long. by Ob
Н.						nas ks	Tel 25	th.	1876	
1 2 3	666	WI	BN	SEBS		Con	nmen	res /	with	fine
4 5 6	5 5	6					and p			1
7 8 9 10	5 5 6	0				aria	tion 12	38.	West:	
11 12 1 2	6550	4			1	ith.	rain;	look	in in	the
3 4 5 6 7 8	776644	5	13 S	<i>.</i>	in	19 80	set pe	oy als		to vaganification of the control of
9 10 11 12	4445	5 5				En	sail He rds fit.	easan		
N48	CV.	Dist. Diff.	1 1	Dep. Lat	. by D. R.	[7.]/		iff. Long. 97	Long. in 21.00	Long. by Ob.

	1	Chi	inu	from	C	Towa towards Sulem
Н.	K.	н.к.	Courses.	Winds.	L.W.	Remarks Feb 26 th 1819
1	6	-	NWBN	TEBY		
2	6					l'ommences with fine bre eeres and pleasant weather
3	0					
4	5	0				seres and pleasant neather
5 6	5	6				,
7	5					all sail set before the wind
8	5					
9	5	10				
10	6					
11	6					
12	7					•
	5	4				11.
2 3	6					Middle and latter parts fin
4	5					breezes and pleasant.
5	6					al in the procession.
6	6					Variation per azimouth 11: 10
7	4	5				
8	4					West.
9	4					
10	4	5				•
11	4	5				
12	5		D'C I			D. L. T. a. L. Ol. L. XI. S. C. T. T. S. C. T
Course		Dist.	Diff. Lat.		. by L	R. Lat. by Ob. Varia. Diff. Long. Long. io Long. by Ob.
N47	Y W	128	86	93		5.,50 11 94 22 36
н.	К.	н.к.	Courses.	Winds.	L. W.	
		н.к.		Winds.		Remarks Feb 27 th 1819
H.	K. 4		Courses.	Winds.		
1	4	H.K.		Winds.		Remarks Feb 27 th 1819 ~
1 2 3 4	4 4 4	4		Winds.		Remarks Feb 27 th 1819
1 2 3 4 5	4 4 4 4	4		Winds.		Remarks Feb 27 th 1819 - This day commences and ends with fine and ple-
1 2 3 4 5 6	4 4 4 4	4		Winds.		Remarks Feb 27 th 1819 ~
1 2 3 4 5 6 7	4 4 4 4	4 4		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother
1 2 3 4 5 6	4 4 4 4	4		Winds.		Remarks Feb 27 th 1819 ~ This day commences and ends with fine and ple-as and breezes und a smother sea; all sail exampled before
1 2 3 4 5 6 7 8	4 4 4 4 4 5 5 6 6	4 4		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother
1 2 3 4 5 6 7 8 9 10	4444455666	44		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9	444445566666	444		Winds.		Remarks Feb 27 th 1819 ~ This day commences and ends with fine and ple-as and breezes und a smother sea; all sail exampled before
1 2 3 4 5 6 7 8 9 10 11 12 1	44444 5566666	444		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1	4444445566666666	444		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3	4444445566666666	444		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1	44444455666666655	444		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4	4444445566666666	444		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7	444444 55000000000550	444		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 8 9	444444 5500000000 5500000	4440		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9	444444 5500000000 55000000	4446		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	444444 5500000000 550000000	4440		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 11 12 1 1 2 1 1 1 1 1 1 1 1 1 1 1	444444 5500000000 55000000	4440		Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.
1 2 3 4 5 6 7 8 9 10 11 12 1 9 10 11 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	444444 55000000000550000000000000000000	4440	AW 13.N	Winds.		Remarks Feb 27 th 1819~ This day commences and ends with fine and ple-as and breezes and a smother sea; all sail escanded before the Mind. Variation per az 8°40 West.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 11 12 1 1 2 1 1 1 1 1 1 1 1 1 1 1	444444 55000000000000000000000000000000	4 4 6 3 3 Sist 1	Diff. Lat.	Winds.		Remarks Feb 27 th 1819 - This day commerces and ends with fine and ple- as and breezes and a smother sea; all sail escanded before the Mind.

	1	Chi	mu	from	Taru wards Falem .
H.	К.	н.к.	Courses.	Winds	L. w. Remarks Feb 28 th 1814 ~
1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11	55065444444555555555445	5 5006	NWB)		Rommences with moder- ate breezes and pleasant weather all sail set bef ore the wind. All I'll set the fore lofe fal sait: Middle and latter parts fine breezes and pleasant. Variation per win give West.
Course.	5	ist.	Dif Lat.	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob
1 2 3 4 5	K. 4 4 4 4 4 4		Courses.	Winds. SEBJ	
6 7 8 9 10 11	4 5 5 6 6 6	6			bung pleasant.
12 1 2 3 4 5	000556	4 4 6		1.21	Variation per wz = 8., 40 West
6 7 8 9 10 11	66667	3		998	
Course.	-		Diff. Lat. 1	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 2.02 9 100 27.26

		Ch	ina	from	J	ava towards Lalem
H.	K.	H.K.	Courses.	Winds.	L.w.	Remarks . Min. 2 a. 1819 -
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9	4655555556655665545556	56 66 2, 60 6	NY3Y	J.B.E.		Moderate breezes and places and weather and a smoothe sea all sail expanded from the commencement to the end and of the day. Varietion per azimouth iz:38 West:
11 1 Course	TA 1	н.к.		95 0	L. W.	
3 4 5 6 7 8 9 10 11 12	405500065555	5 64 5				eeres and profsing clouds, all necessary sail set. Variation to West. Middle part squally with rain.
2 3 4 5 6 7 8 9 10 11 12	5 4 3 2 4 5 5 4 4 3 9 D	4 4 ist	Diff. Lat.	ESE ENE	by D	Latter part plight bree. 228 & hafsing clouds. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by).
-	141	 ,	88	72	,	40.86 72 30.13

		Ch	min.	from	Tuva cowards Sukem
J. A.	К.	н.к.	Courses.	Winds	L. W. Remarks Mar. 4 th 1819.
1 2	4		4 WBe4	East-	Commences with light
3	4			-	
4 5	4	4			bruis and cloudy weather
6 7	4	0			all necejsury suit sit
8	4	4			6
9	4 4	4		1.8.	initially break in the
:1	6			0. <i>C</i> ,	educate part squality took
12	5				in the main sail.
2 3	5	10			
4	4	6			
5	4	6			Ends Wasters Courses
7 8	65				Emds pleasant breezes und
9	4	40			kleus une weitter.
10	5				
12	5				
Course.			1	1	at. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
1.404	Y /	118	42	12/4	2 30 0 4 31.27
H.	K.	residence.	Courses.	Winds.	
1	m,	1	VW.3A	CN E	30 . 12
2 3	6	6			Bilins noch jine breezes
5	N	6			and reventes weather all ne
6 7	6	6			Cigo gry sul del.
8	n.	6			Ut 5. P. M. took in the roy-
9 10	U	4			
11 12	10 mg	5			als and mign top gal sai
12	8	5			
2 3	8	4			· Middle und latter parts
4	8	6			
5 6	8	6			strone bree; es and good we.
7	8				ather.
8 9	8	4			at 5 a.M. set meg en top
10	8	6			gal sail.
12	8	6			
Course.	1	-	1		t. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
40	12	83	134/	25	4.20 0 126 33,33

	/	Ch	ina	from	Í	Pava towards Palem
H.	K.	н.к.	Courses.	Winds.	L.W.	Remarks Man w th 1814.
1 2	8	4	V W BCH	NE.	3	Commences with fresh bre
3 4	8	4	er 4420	· •		
5	8	L				ves und passing clouds all necessary suit set
6 7	8	4				1
8 9	8	6	•			Variation per an 254 West
10	8	2				
11 12	8	4				Middle and latter parts str-
1 2	8					one buyes and paysing cheeds
3	8					i c
4 5	8			,6112		
6	8	4		W 8/13.	1	2
8	8	4		•		Liste I force there is a current
10	8					setting I'll M' in which I allow
11	8					J. 456 4
Course	I D	ist.	Diff. Lat.	Dep. La	it. by D	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
850	24 1	97	126	151		6 26 3 152 36.03
н.	К.		Courses.		L. W.	Remarks Min my Us. 18 19. 4
1 2	8	4	N'M'zek	NEB	13	Comes in with strong
3	8	4				billyes and pugsing clouds.
5 6	8					
7	8	4				11.
8 9	8	5				Middle pari strong breezes
10 11	8	5				and passing squalls
12	8	5				Ul 9 F.M. reejed miz en
1 2	8	6				los sail and set the fore
3 4	8	6				und migen lop gal sails
5	8	4 5				. 0
7	8	5				English Andlette wind the
8 9	8	4				Ends cloudy wiether.
10	8	4				Note) I allow 8 45 W as yesterday
12	8	4	1			
V49	D		Diff. Lat.	Dep. La	t. by D	R. Lat. by Jb. Varia. Diff. Long. Long. in Long. by Jb. 2 154 3834
1 49	L'OUTE A SPANNING	111				

Thip China

all nearly sy sail set. S			Ch	ina	from	2.	Tava cowards Salem
1 2 9 5 1 1 1 1 1 1 1 1 1	Ħ.	K.	н.к.	Courses.	Winds	L. W.	
10 8 4	1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 10 11 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1	K. 8988888888888888888888888888888888888	H.K. 555 444 444 444 6 3 66 5 66 5	Courses.	Dep. Lat. 15!	by D. 1. W. 3°	Bommences with fresh breezes and cloudy weather all necessary sail set. Of I I'M set the main ional, plying jet and min top gat staysail. Ends with fine breezes and cloudy. Ends with fine breezes and cloudy. Remarks Man gith Long. Long. In Long. by Ob 10.50 2 153 41.10 Remarks Man gith fresh breezes and passing clouds, all necessary sail set. Middle part fresh breezes and passing clouds. At I I'M took in the payals als and flying jib. Out g at M. set the payals
12 8 6 S hafsing clouds. Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.		8					
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	11	8	10				^ //
	-	8 D	-	Diff. Lat.	Dep. Lat.		1 1 0
40.41	W50	W/1			148		12.52 2 151 43.41

	,	Ch	ina	from	Ī	lava	to	wards	Saler	n
Н.	K.	H.K.	Courses.	Winds.	L.w.	Remarks	Ma	1.10 W	2 1819	
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9	8888787877877000655555666	6	NW.	NE VSC	3"	preezes passis sail Ou 2 and	og el set. PM lying le an	os ant Jouds, o took jil d la	nead of	her and ecefs ary
Course	6	5 Dist.	Diff Lat.	1		D. R. Lat. by	Ob. Varia.	Diff. Long.	Long. in	Long. by Ob.
N48	XXV.	108	///2		1446			1 7		
H. 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 11	K. 6666544454433310222222	H.K. 4466 544 555	N.W.		L. W.	Bei breeze her Min	all ne	with pleasers and	mod us ant- ght a	precil-
Course	-	Dist 85	Diff. Lat.	Dep. La	it. by I	D. R. Lat. by)b. Varia.	Diff. Long.	Long. in 46,5	Long. by)

1		Po V			1
			ina fior		Tava cowards Salem
11.	K.	H.K.	Courses. Wi	nds L. W.	Remarks Mar. 12 th 1819
1 2	1,	1	NW BN Va	mode	Comes in with light
3	1	1	NW		
4 5	2		North		ans and variable, took
6	2				in all the light sails sli
7 8	2				ing
9	4		MBW		
.1	224	6	NWBW		Middle part light breezes
12	4				and pleasant
1 2	4				al 1. 30 a. M. tacked ship
3	4				to the J'85 W.
5	3		due s		
6 7	2		NN M		Variation her wem 0012 East
8	2				Ends with moderale br.
9	2	5	N'2 E		
11	2		NNW		evres and pleasant all ne
12	2				ejsary soul sol.
N 50		92	Diff. Lat. Dep.	Lat. by D. i	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 15 47 00.12 28 47.24
71.79			70 2/		
Н.	K.	H.K.	Courses. Wi	nds. L.W.	Remarks Man. 13 th 1819
1	4	4	NWBNO	riable	B. 1. 1. 1. 1. 1.
2 3	5	4			Begins with light win
4 5	5		NBE		de and pleasant.
6	3	(NNE		Ul 4 9° M. sasu a sail
7 8	1	4	den. M		in to the Northward stan-
9	1	4			
10	0				ding to the Southward.
12	0				Midnight calm.
1 2	0				A
3	0.				at bû ma light sir from
4 5	0				the I set lower top most
6	2		1041		Is top gal study sail.
8	4	5	NW		
9	5				0
10	5	6			Ends moderate & pleasant
12	4	6			
	. 1 1	Dist.	Diff. Lat. Dep.	Lat. by D. 1	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
Course	10 W		1	1	1619 00.12 30 4750

Minam Putnam Master

	/	China	from	e	Tava towards Salem
Н.	K.	H.K. Cours		_	
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3	4 4 4 4 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3	NN9 N 13	Waria West		
4 5 6 7 8 9 10 11 12 Course	5/-1	0 6 5 5 5 5 5 Sist. Diff. L. 83 ~3	1	at. by D	Ends hleas unt: No. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 1/42 48.3 1/42 48.3 1/48
H.	1	H. K. Cours		L. W.	
1 2 3 4 5 6	222211	3	_ 		Begins with light wirs and clear all drawing sails
7 8 9 10 11 12 1 2 3	000000000000000000000000000000000000000	bala	n		Middle part dear and pleasant. Ut 3 A.M. a light air from
4 5 6 7 8 9 10	2 / / 2 2 2 2	5 5 NW 3 3 NW	N NEB	3.4	Ends light breezes and pleasant.
Course NY	2 1 1	Dist Diff. L. 30 22		at. by D	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 17.89 19 21 4859

		Ch	inu	from	C	Paru	tow	ar ds	Sule	m
H.	K.		Courses.		L. W.	Remarks	- Mu	1.16.1	h 18	100
1 2	2		WWZN	8. F. E	ず	Bey	ins	nrih	? lie	the wars
3 4	2			Exil in		/		,	11	pail sel
5	2	4		iniabl		to wido.			,	
7 8	2					1	1			the low-
9	3					en stri			M	Mi NOW-
1	3	4					,			
12	3	5						/		oder ale.
3	3 3					and h			′	
4 5	2	ĵ				. ,		w'	rally	took in
6 7	2 2	4				the his	_			6
8 9	25	4				Ul 8 1	i.m	. plu	iedra .	breezes and
10	6					pleasin	ne to	the	ind	of the day
11 12	0									2
Course	0.1	115c.	Diff. Lat.	Uep. Lat	. by D.	R. Lat. by Ob	1 1	Diff. Long	Long. 44	In Long. by Ob
н.					1		11			/
1	K.	H.K.	Courses.			Remarks		er 14		
2 3	6	4	NIV 2W			lom	men	res m	vilh	fresh bre
4	6	3				eres un	id cl	ridy.	all	sail sel
5	6		NENZA			by the	nen	ed.		
7 8	6		NW			Ul 8	look.	in to	he no	y als and
10	7	14	NWZA	NEBA		flying	jil.		٤	,
11 12	7-7-					1 . Hide	ile.	hart	nesse	h breezes
1 2	777	4				and f			P	
3 4	8					aron ji	J. Cow W			
5	8									
6 7	8					0		, .	/	()
9	8	U				Ence	ds f.	ine	breen	es and
10 11	8	6				pricaja	nl			
12 Course	4	U)	Diff. Lat.	Dep. Lat.	by D	R. Lat. by Ob	. Varia.	Diff. Lon	g. 1 Long.	in Long. by Ob.
	14/		118	131	. 0, 1.	20.3.	. 1	139	52,	/ 1
	,									!

Minam Pulnam Master

	,	Chi	ina	from	<u> </u>	Tarra	tou	vards (Salem
Н.	K.	H.K.	Courses.	Winds.	L.W.	Remarks	Man	18.Uh	1819
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8	8877887776666677777	66 66 44 666 44	WAY WWB	ENE NEBA	Y.3	sail se and se all top Middle and profession of the sail and profession of	e par	took struction of	ong breezes ds. ofr yal and
9 10 11 12 Course W34 H.	WI	64	Diff. Lat.	92		D. R. Lat. by O 22.14 Remarks	b. Varia. 1	99	Long. in Long. by Ov. 5455
1 2 3 4 5 6 7	8000040	40 5 5 S	VW 130	NEB.		passing	cloud	S	ish breezes &
8 9 10 11 12 1 2 3	8770665	55 5 4 4 4		NEB	E	plias a.	nt. A.M.	p our	in Bright
4 5 6 7 8 9 10 11	50076666	5		ENE			mode		Vonthward breezes and
12 Onrse N3 4	4 .14 .		Diff. Lat.	Dep. La	t. by I	D. R. Lat. by)		Diff. Long.	Long. ia Long. by Jo. 56,30

	Λ	Chi	na	from	2	Tava cowards Latem
li.	K.	н.к.	Courses.	Winds	L. W.	Remarks - Min. 20. 1h 1819
1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 Course	600000500000000555544457655	3 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	NEW 13 No			bommences with strong trade winds and pleasant weather all necessary said set Middle part strong bree- tes and cloudy. We y a M. saw a sail standing to the Northward Ends fine breezes and pleasant.
	OWI	1	1/3	81 S1	• by D.	. 26.38 1° 91 58.01
II.	K.	н.к.	Courses.	Winds.	L.W.	Remarks Mar 21 st 1819
1 2 3 4	4 4 50	0004	YWBNE	NEGE East		Begins with fine bree res and very warm, all
5 6 7 8 5	767766	0446				necessary sail set. Variation per arm 1.50
11 12 1 2 3 4 5 6 7 8 9 10 11 12 Cours	606666666666666666666666666666666666666	5 5 5 Dist.	Diff. Lat.	JEVS S		At to a M san a ships standing to the Northward At 10 a M. set the main lop must and loner stud- ing sail Ends with fine breezes R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob.
430	3741	42	/23	71		28.39 2 80 5921

Glinam Ritnam Master.

	/	Chir	ia	from	2	Parci	to	wurds	Salem	
Н.	K.			1		Remarks	Mar. 2	206.1	819.	
1 2	65	Nu	/B.N.	NSSE		Com	memores	mit	h moder	n so
3	4	5	Ja Ja					,	· ·	
4 5	3	5				breez es	omol	prea	sant, all	
6	3					necessa	ry sa	ul pe	l:	
8	3	5				1				
9	4	9				Miller	. 21	1:0		K
10	5					e rouseri	i i	ugni	t prinds	03
12	4					clousty	· ·			
2	3	4				//		0		
3 4	34	4				Emole	wit	h lu	The win	ds
5	3	4		L'W			reale	1- 1	he wind.	fo.
6 7	3	4		4: 07		26.				6
8	34					ariling	to U	re n	estimand a	00%
9	4					in a	I the	e star	loant steel	din
11	4					sails.				1/2
Course	41	ist. Diff	f. Lat.	Dep. Lat	t. by D		Db. Varia.	Diff. Long.	Long. in Long. by	7 06.
N29	W 19	96 ~	77		29.,5	, ,	3	6 mg	60.28	
Н.	K.	н. к. С	ut ses.	Winds.	L. W.	Remarks	Man 9	3 d 18	1190	
1	4	NW	12 W	WY 4	120	^	•		1 0	·
2 3	4	N	137	yarial	h	Dome	s m	with	fine fi	ne
4	5 5		X I			preach	er, Cu	2 9.1	M. fresh	br
5 6	4	N	W/3	W		eeres i	n pe	tudin	grails non	1al
7	5	184	13%	iW				//	t 5 P.M	18
8 9	3	NH	3 W2	W		1/ "	11 11 11			
10	3			WEB.	V				to the NE	- 12
12	4	,,,,,,		0,014		in li	p gal	sail	's and to	ck
1 2	4						. (/		N.W. dow	// // 1
3	4	6				C.				- 18
5	. 3			,		1/			sails ama	- 11
6	3					down	you a	l ya	nots. Alt of	
8	3 4					close	neefed	Jo,	sails & h	an
9	3	46				U	0		! sail.	
11	4	φ					1			
12	5 Di	5- Die	Tat 1	Den I I	hr D	R. Lat. by	b. I Varia	Diff. Long.	Long in L.C.	
N49	1	444	2	mep. Lat			Valia.	86	Long. in Long. by	75.
	1 '	1		//		/				

	/	Chi	ina	from	13	Para comands Salem
I is	К.	н.к.	Courses.	Winds	L. W.	Remarks . Man. 24 th 1819
1 2	5	4-	WWW	NNE	12	
3 4	5	2	NBY			Begins with fresh bree-
5	6	4	N.138			res and cloudy with a
6 7	5	5				heavy sea.
8 9	5	5				
10	4	4		98		Midnight light airs from
12	3			JU		the L.E.
2	2/	4				al 3 a.M. let the reefs fro-
3 4	2	2 4				m the top sails and set
5 6	3 4		NNY	V		
7 8	56					lups yal sails.
9	6			111111111111111111111111111111111111111		at 3 a. M. enegsed R yards
10	5			WB		& set all barboard studing
Cou .	6)ist.	Dif Lat.	Den I Lat	by D	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
	or.	4.41	101	36	0, 0.	32.50 6 43 6234
II.	К.	н.к.	Courses.	Winds.	L.W.	Remarks . Man 25 th 1819
1	6	40	VWB N		34/3	
2 3	10	4				Comes in with fresh
4 5	77	6		•		breezes and pulsing clouds
6	8					all merels any sail set.
8	8	4				Middle part strong br-
10	8					ceres and hary wek in
11 12	6	4				the light sails reefed sp-
1	5	4				
3	6					anker took in 5. gal sails
5	5					and reefect top sails.
6 7	1	5				
8	60	Im				Leatter part spleasant
10	2	4				meather all sail set.
11 12	3 4	24				
Course		Dist.	Diff. Lat.		. by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
NS	21/	127	108	07		34.37 7 80 6354

- Commission		1	the	na	from	2	Tava towards Falem
1	Н.	K.	H.K.	Courses.	Winds.	L.W.	Remarks Man. 24 th 1819
ı	1 2	7	-	Y W BY	in SW	20	Comes in with strong br-
	3	8					
ı	5	8	6				ceres and passing clouds.
ı	6 7	77	4				at 2 I. M. look in the roy
ı	8	8	10				als and flying jil and all
I	9	8	6				the slaysails & top gal sails
	11	8	6				au 6 J.M. double reefed the
	2	7					pop sails.
	3 4	6					au & FM close reefed the top
	5	5 4		1.6	1 3/1		sails reefed M. sail & hunded it
	7 8	3		NE	CV W		at 12 past 12 record fore sail of
	9	2	5	West			handed miren top sail.
	11	2	J	. , , , , , ,			Ut ba. M. down R yards.
	12 Course	2	ist.	Diff. Lat.	Dep. Lat		O. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
	W15	WI	24	120	31		3626 6 39 64.36
	н.	К.	н.к.	Coarses.	Winds.	L.W.	Remarks ellar 27 th 1819
ı	1 2	2	4	WBY	NWB	W	This under close reefed los
	3 4	Ga	lm.	The	ships of	recici	sails and courses.
ı	5	nou					
	7	- /	no	the s		9	at 10.30 let 2 needs from the
113		3	mo 4	the re	ompajs W. J.y.		at 6.30 let 2 neefs from the
	8 9	3 5 5	mo 4 4	the R	ompajs	20	top sails.
	8	35576	6	the re			top sails. Middle part strong bree-
	8 9 10	5766	65	the R	ompajs		top sails. Middle part strong bree- res and pajsing clouds.
	8 9 10 11 12 1 2	35576677	654	the re	ompajs		top sails. Middle part strong bree-
	8 9 10 11 12 1 2 3 4	5766	65	the 16	South	20	top sails. Middle part strong bree- res and pajsing clouds. at 1 a. M. close reefed the top sails.
	8 9 10 11 12 1 2 3	5766	654	He po	ompajs	20	top sails. Middle part strong bree- res and pajsing clouds. at 1 a. M. close reefed the top sails.
	8 9 10 11 12 1 2 3 4 5	57667767333	654	the 16	South	20	top sails. Middle part strong bree- res and pajsing clouds. At 1 a. M. close reefed the top sails. At 3,30 a. M. the wind
	8 9 10 11 12 1 2 3 4 5 6 7 8	5766776733344	654	the 16	South	20	top sails. Middle part strong bree- res and pajsing clouds. At 1 a. M. close reefed the top sails. At 3,30 a. M. the wind hauled to the NSW handed
	8 9 10 11 12 1 2 3 4 5 6 7 8	576677673334	654	the 16	South	20	top sails. Middle part strong bree- res and pajsing clouds. At 1 a. M. close reefed the top sails. At 3,30 a. M. the wind
	8 9 10 11 12 1 2 3 4 5 6 7 8 9 10	5766776733344433	6546	V.C.	South South	20	top sails. Middle part strong bree- res and pajsing clouds. At 1 a. M. close reefed the top sails. At 3,30 a. M. the wind hauled to the N&W handed M. sail and M. top sail.
	8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12	57667767333444433	6546	the 16	South South	20	top sails. Middle part strong bree- res and pajsing clouds. At 1 a. M. close reefed the top sails. At 3,30 a. M. the wind hauled to the N&W handed

	/	China	from	Sava cowards Schem
H.	К.	H.K. Course.	s. Winds	L. W. Remarks Mar. 28 th 1819
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 8 9	44333343222222222222	Up N B E		Ship render close reefed top sails. At 4 P. M. spoke an Eng- Whish ship bound to Norfolk 44 5 4 days out. Al & P. M. reefed fore sail and hunded fore and more top sails, spanker and fore top mast slaysail. Ends strong gales and he
9 10 11 12 Course # 80 H.	2222	Dist. Diff. Lat. 32 4 H.K. Courses. Quality Y Y Y	30 8	avy squalls. a. by D. R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob 3725 8 37 44/8 1. w. Remarks Mar. 29 th 1819 3746 Bigins with strong gales and passing squalls of hail
6 7 8 10 11 12 1 2 3 4 5 6	2222222222222	Up SW		snift reneser reefect fore suit and close reefect main top sail & miren slaysail and bliddle part strong gale and heavy squalls.
7 8 9 10 11 12 Course		Dist. Diff. Lat. 52 50	Dep. Lat	Læller spent more moder. 18 ute set the fore to moren top sails let a reef from topo sails & set the M sail. t. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 8 years & eurent & 17 64.82

		Ch	ina	from	ئ	lava	tore	vards	Salen	ı
Н.	K.	н.к. (Courses.	Winds.	L.W.	Remarks	Mar.	30. Uh	. 1819	
1 2 3 4 5 6 7 8 9 10 11	33333211456	55 - 4 4 5	WBS.	(WB)		al 4. of the	top s	elet ails	the pand	bree- eefs our set the
12 1 2 3 4 5 6 7	88777778	5 5 4		WSU		sails. Midn At 4	ight	fresh	h bree de neep	ges. Less the
9 10 11 12 Course	8 8 8	4 Dist. 135	Diff. Lat.	9 W Dep. La	nt. by L	at 8	Ob. Varia.	cloj	le reef. M sait 5. Long. ia	ed lop
H. 2 3 4 5 6 7	K. 8		Courses.	Winds.		at 8	ins r and po J.M.	vith leas	ant. neted	bree-
9 9 10 11 12 1 2 3 4	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5 5				Mis		aûrt. unde	stron	é galss e reefec
5 6 7 8 9 10 11 12	77554533	5 5 5	Diff. Lat.	J W		at b	a.M. Ore log a.M. a.M. Db. Varia.	h is	ail \$.1 vided	1. 40 F.
WZ	1		1.30	122		40.		155	1	1/

	. ,	China	from	Pava cowards Galem.
ki.	К.			w. Remarks April 1st 1819
1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12	445566555444445343344455	4 VW 2 4 V 13 7 4 V 13 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SWSW 1.	breezes and hary 4 at to P.M. double reefect top sails recfed M. sail 3 and handed the jit. Ilidate part fresh breezes and rold, sounded evry 2 ho let y u.M. maid sail. let 10 it M set top gal sails.
Course	5	ist. Diff Lat	. Dep. Lat. by I	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
				41.29 8
н.	К.	H.K. Courses.	Winds. L. W	. Remarks
1 2 3 4 5 6 7 8 9 10 11 12 Course		Dist. Diff. Lat.	Dep. Lat, by I	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.

	1	china	from	5	Palem towards Geberalten
Н.	К.	H.K. Courses.	Winds.	L.W.	Remarks April 22 at 1819
1					First part pleasant bree
3					
4. 5					zes and fine weather, but
6					the wind being to the East
7 8					tward cannot get under wag
9					
10					Middle part cloudy.
12					at & U.M. the wind N.W.
2					and a fine breez.
3 4				-	at 9 a.M. Mr. Perkins came
5 6			,		en bourd j'at under way
7					
8					Enas with fine breez
10					es. Backers Island in sight
11					
Course	:]]	Dist. Diff. Lat.	Dep. La	it. by I	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
1975	- Company				
'н.	K.	H.K. Courses.	Winds.	L.W	. Remarks April 23 a 1819
1 2	my	8139	NNE	1	Begins with fine breezes
3	7	5 5			and pleasant Thutchers Is-
4 5	766	5			
6	6	8			land N3 leagus distance.
8	778	5 5			au 1 set top gut sails und
9	8	6			sent up royul yards una
11	1	5-	/		
12		5 4			set studing sails.
2	6				al 3 I'M took in all the
4.	6				light sails.
5 6	6				al y 9. M. double reefed
7	6	5			the lop sails.
9	my	,			
10	7	7			at miunight took in M. sa
12	1 7	6			Ends strong breezes
Cours		Dist Diff. Lat.	1 1/ 1		D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. py 10.
Ein.	14	167 00	167	, .	42,90 10 179 67,35

	O h . aa ii	<i>C</i>	
11. K.	China		talem cowards Giberalter.
1 2	H.K. Courses. 8 FEBES 5		Commences with strong
2 my 5 my 5 my 6 my 8 8 8	5 5		Gales and clear weather. At 4 J.M. tet a reef from
9 17	5		the lop sails.
10 dy 11 12 10 1 5	5 5		Middle part more mod
2 5 3 5 4 5 5 6	3		viule mend suit recordingly
6 7 7 8 7 9 7	6 4 8	NW	pleus und ull necejo any said
10 7 11 7 12 8	0 Sist. Diff Lat.	Dep. Lat. by D	mucd.
4 73 8	16 m 49	100 41	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
н. к.	H.K. Courses.	Winds. L. W.	Remarks Upril 25 th 1819
1 8 9 5 5 8	5 881382	WW	Begins with strong bree
4 8 5 8 6 8 7 8	5		a inge sea
8 ¢ 8 10 8 11 6	5 5		al 6.30 P.M. in lover ludg
12 8 1 8 2 7	5 5	wister	Ul 8 FM in royals Ul 8,30 fow lop mast studing
3 4 4 8 5 8 6 8	5		ail and lop fal sails. At 9 PM reefed fore and M
7 8 8 9 9 10 8	0		lop suits & spanker QUII m S. s.
11 8 12 8 Course, 1	Dist. Duff. Lat.	Dep. Lat. by D	squard the yards R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
1 438/	95 64	209 40	

	Cot	rin	cci	from	9	Peilem towards Giberatter
Н.	К.	н.к.	Courses.	Winds.	L.W.	Remarks April 26 th 1819
1 2	8	2	१९१३६५	ENWY:	W4	bomes in with strong
3	8	3				gales and passing squalls
5	8			•		
6 7	7	zy				at 5 %. M. let 2 d reef from
. 8	8					fore lop suil san a sail
10	7	5				standing to the southward
11-	8	3				and westward.
1 2	7	5-				At 6.30 set fore lop gal sail.
3	6	5				Midnight squally with rain
5	my	. 9			,	took in Tore and main top
7	65					
8 9	0	3	.•			gal sails.
10	6					Ends strong breezes and sta
12	5	5	53:00 F			udy.
960	0	Dist.	Diff. Lat.	Dep. La	39.1	10 11 220 1210
Н.	K.	н. к.	Courses.	Winds.	L. W.	v. Remarks Upril 27 th 1819
1	5		3828			
3	555		SEBT		1	zes and selvedy weather.
5	5	4			1	
6 7	5555		138	East		Ut 2 P.M. more moderate
8 9	5		SBE	evar		set the jib let a reef from
10	5	1	882		io in	the spanker.
12	5		100			al 10 3 1m. close region once
1 2	5	5	300	2 write	Ele	lop sails and spanker, fore
3 4	5		South	298		and main sails and hande
5	5	5				mozen top sall
7	4	4				01 19 more ships to the 889
9	3	5	82 4		18	and handed for top sail.
10	3		4134			
12	3				I he l	D. R. Lat. by Jb. Varia. Diff. Long. Long. in Long by Jb.
920	78	102	Diff. Lat.	Dep. L.		7 39 26 East Pary es Enday 53,32
1			1	1 / 1		1020 East ous yes ending

	/	Ehr	irra.	from	i	ralem cowards Geberaller
H.	K.	н.к.	Courses.	Winds	L. W.	Remarks Upril. 28th. 1819
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7	11111114450~888	5555555555			40	Joegins with strong gales and paincy. All to J.M. sent down. down fore is mizen lops gal yards allidate part more more derate set fore and M. tops sails Emals fine breezes and
8 9 10 11 12 Course	7 7 8 8 8 2 1 1 2 8 4		/2	9.1		ple reefect Lop suits. R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob. 88,20 4 130 51,22
1 3 3 4 5 6 7 8	88782		EN3 S'2			Comes in with moderate breezes and huzzy, sent report fore and mizen top gal youds.
10 11 12 1 2 3 4 5	7-7-7-7-7-8	5 73		WS W		from the fore top sail & sel set fore top mast.
6 7 8 9 10 11 12 Course.	-	3 5	Diff. Lat. 1			
4 888	2 / 18	5	6	183	×	3815 9 235 47.27

	l	hi	na	from	(Palem towards Geberaller
Н.	К.		Courses.	Winds.	L.W.	Remarks . Upril 30 Up. 1819
1 2 3	6 5 4	6	e.S. E.	fwn.	0	Begins with fine bree
4. 5 6	3 2 3	5				zes and pleasant all necess ary sail sel.
7 8 9	223	5 4 5		FSW		Variation per wzm. 15.47 West
10 11 12	3 7 7					Middle part strong breezes
1 2 3 4	8	267				took in the light sails.
5 6 7	8 8 8	496				Ends with fine breezes
8 9 10	87	5 10				by the wind
11 12 Course	8	ist.	Diff. Lat.	S B W		D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
988	-	49	5	149	38	10 3809 16 292 4417
Н.	K.	н.к.	Courses.	Winds.	L. W.	Remarks . May 1 st 1819
1 2 3	8	5	Eye	SBY		Commences with strong
4 5 6	777778	3 3 6				breezes and pleasant, all nec-
7 8 9		3 66				Ut y F.M. took in nigen
10 11 12	7788	6				soils.
1 2 3 4	876666	3 5				Hiddle part strong bree-
5 6 7	9000	5				at y a m sa fore top man
8 9 10	66	3				nin Al Ryind
11 12	6	Dist	Diff. Lat.	Dep. La	it. by]	D. R. Lat. by Ob. Variate Diff. Long. Long. in Long. by Ob.
	+81			1.74		16 200 100

	,	Uh	ma	from	2)	Ulem cowards Giber aller
Н.	K.	н.к.	Courses.	Winds	L. W.	Remarks May 2 2 18 19
1 2	5	3	ESE	99W	3	Begins with moderate
3 4	5	3				breezes and pleasant all
5	5	255				, , , , , , , , , , , , , , , , , , , ,
7 8	5	5				necessary sail set by the
9 10	4	7/3				Manufina han an Ha
11	4			South		Variation per wim 18.04 West
1	4		813/2	y oun		Middle part light breezes
3	4	5				and passing clouds.
5	4	5				
6 7	5	7	i			Ends moderate breezes &
9	5	7				pleasant all necessary said
10	10	3				maid.
Contse.	7	ist.	Diff Lat.	Dep. Lat	. by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
884	18/	221	23	10 1	8 1	
i.	К.	н.к.	Courses.	Wmds.	L.W.	Remarks May sil 1819
1 2	my.	5	881382	9913	W2	become and all mithe lines.
3 4	4					breezes and pleasant all
5 6	7	6				
7 8	10	0				necessary pail set
9	777770000					
11 12	7	my				Middle and latter par
1 2	6	7 8 6				
3	8	6				ls fine breezes und pleus
5 6	7	4				ant.
7 8	8	68				
9	766787778777	6				
11 12	8				¥	
Course.	-			Dep. Lat.	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
884	41	75	18	174 :	37.13	6 37 38 19 222 34.22

Heram Rutnam Master

	· K	Ohi	ina	from	5	Palem towards Giberaller
Н.	К.	н.к.	Courses.	Winds.	L.W.	Remarks May 4. th. 1819
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9	0 664446446444444444444444		PEBE		4	
10 11 12 Course 980 11.	81	н.к.	Dief Lat. 33 Courses. 888	,	t. by T.	before the wind. 5. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jo. 05 37,24 20 234 3028 1. Remarks May 5. th 819
3 4 5, 6 7 8 9 10 11 12	2777007777	5		W BJ		us and pleasant, all necessions and set before the wind Variation per wz 20,59- Middle part cloudy with squalls look in the lower
12 1 2 3 4 5 6 7 8 9 10 11	8887786767777	5 5				top mast and lop gal. sluding sails. At 5 A. M. muid all necessary sail Enas fine breezes and pleasant:
980	10		Diff. Lat.	Dep. La	t. by I	D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Do. 36.55 21 218 26,50

Thip China

	6	hina	from	Palem cowards Geberalter
H.				Remarks May with 1819
1 2 3 4 5 6 7	7 88 77 77	5 848	WBN	bomes in with fresh breezes and cloudy. Variation per az 21. 20 West
8 9 10 11 12 1 2 3 4	788875600	5 5 7 5	West	Middle part squally took in the spanker at 4.30 a.M. san a ship
5 6 7 8 9 10 11	8887883	5	NWB &	at 8 a. M. san the Ssland of St. Mary bearing N. & 13 E. at meridian bore North.
S88	18/7	Dist. Diff. Lat.	Dep. Lat. by D. 174 Winds. L. W.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 30,40 21 197 25.19 Remarks May my the 1819 ~
1 2 3 4 5	77007	ESE 3	NWBW	Begins with moderale breez and pleasant, all mes
6 7 8 9 10	66544	5 73 3		Ut 4 a.M. set the star-
11 12 1 2 3 4	443555	5		board main top gal stri
5 6 7 8 9	44344	32	WN W	oyed in scaping the ships side men accident
11 12 Course.	-	st. Diff. Lat.	Dep. Lat. by D.	aly the stage brock & two of the people fell overboard. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 36.3 \frac{21}{150} 2247

China from Sulem towards Geberaller
H. K. H.K. Courses. Winds. L.w. Remarks May 8 th 1819
1 6 SEBESEWBI bomes in with moder
ate and pleasant weather
5 5 all necessary sail set before
the wind.
10 3 au a sail bearing
11 3 12 3 EBY lying too at 2 was b
1 2 2 oarded by her which prod
3 2 vesi to be a brittish ship
from Brtsmouth.
8 3 all to the Ear
9 2 10 2 troard
Course Dist. Dist. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. 9848 78 128 77 36,29 36,28 22 97 2/10
H. K. H. K. Courses. Winds. L. W. Remarks May 9 th 1819
1 2 9EBESE West Begins with light breez
s and pleasant weather.
5 / at y Im. wook in all sh
7 / dingsails.
of 10 1 al 3 a m a strong breez
from the Eastward book is
1 2 0 the staysails.
3 0 4 0 0 0000
5 3 898
8 3 3 mp Ends with light breezes
10 4 JBEDE and pleasant.
12 4 12 14 12 15 Den Hat, h. () R. Lat, by ()b. Varia. Diff. Lang. Long. (a) (2003. by ()b.
Juise Dist Diff. Lat. Dep. Lat. by D. R. Let. by 'b. Varia. Diff. Long. Long. 14 1003. 17 10. 9468 38 30 24 . 35.56 23 30 20.49

	•••	64	rima	from		Ratem cowards Criberalter
H.	K.			-		9000000
			7100			Remarks May 10 th 1819
2	3	7	332	East &	U5	Commences with light
3	4	5				
5	4	5	99838			breezes und pleasant wea
6	55	5				ther.
7 8	5		998			at 5 FM. took in all
9	4		913,82	0	11	
10	4		886			the light sails.
12	4					al 6 J. M. sur a sail
1	3	5				
3	4					in the IE standing to
4	4	5				the Northward.
5 6	4		8835			
7	4					au 9 J. M. handed the
8 9	4		10 101	2		lop gal souls & single
10	4	5	88139			the lop sails
11	8	5				2.5
Course.	4	Dist.	Diff Lat.	Den I Tat	h- D	al 3 a. M see M. J. G sail
		-	74	67 Lat.	dy D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 32.5/ 23 82 19.18
or organization of	Mary Tax Taxabana	-		1		
U.	K.		Courses.	Winds.		Remarks May 11 Ur 1819
1	5	2	3829	€24	11	Begins with strong
2 3	5.					
4	5					breezes and cloudy, ship
5	5	5				under single reefed top
7	4	5	8829		- 1	, //
3	5		99	ENE		sails
10	4	9	9828	2 10 2		
11 12	4	5				Mix May beach
1	4					Muelle part strong
2 3	4	3	98			breezes and squally.
żi	4	5	26			
6	4	5				P
7	4	4				Leatter part strong
8 9	4					breezes and pleasant
19	4	5	8228	N213	3	let the rufs from the
11 12	4		98138			I's ails.
Course.	4			Dep. Lat.	by D. I	,
455	-	121	1 0-11	80	- , x., x	33,5 23 106 17,30
		1	/ 1	7.		1/11/04

Hiram Pulmam Master

	los	his	ra	from	(Salem towards Geberalter
Н.	К.	н.к.	Courses.	Winds.	L.W.	Remarks May 12 th 1819
1 2	4	55	EBS	NO B	8	Commences with mouer
3	4	5		To Concess		,
4 5	5	3	E1385	P		ale breezes and hazy all
6'	. 4.	- 77	(1702			necessary soil set
7 8	4	3.				
9	5	4 5				
11	5		000			
12	4	5	88 E	0		11
2	45	3	000000			Middle and latter parts
3 4	5	36	8138	varia	ble	moderate breezes and preas
5	4	5				anl
7	5	2				
8	5					
10	3	~				
11	4	7				
Course		Dist.			t. by E	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
W8	88	114	4	114		34,00 22 137 15.13
Н.	K.	н.к.	Courses.	Winds.	L. W.	Remarks May 13 th 1819
1 2	4		8/28	NNE	100	Begins with fresh bre
3	4	5	€ 139	9		ezes and harry with a
5	4	5	8139	69		
6	4	5	3 2 2	6 NO	8	huch sea.
8	4		North	money	re	Ul 1 P.M. took in top go
9	3					sails and single reejed
11	4	5				the lofa sails.
1	4	5	051 91			at & 98 m. tacked ships.
3	5	5	W27	M		
4 5	4	1	W 134	129N		At 2 am double respect
6	5	14				the loss sails needed spank
7 8	4	,				er
9	4	1	NNY	W		Ends flrong breezes & clou
10	4					
12	4	1	l Dim			D. R. F. Lat. by 36. Varia Diff. Long. Bong. in 1. 2 ong. by 135.
Cours	1 4 4 .	Dist.	Diff. Lat.	Dep. L	at. by	34,45 22 10 15.03
- Andrews						

Ship Chirra

1			Vala	ina	£		Palem mards Cilveraller 1
	17		;				1/2000000000000000000000000000000000000
ı	11.	K.	н.к.	Courses.			Remarks Muy 14 th 1810
1	1 2	3	5	JE13E	NE13	2	Begins with fresh buc
I	3	3	5				res and a heavy sea.
	5	3 3		98	EN E	8	
ı	6	্র 3	4		varia	lle	at to I.M. sent down
	8	3	6				royal yards.
	9	3	555	JE13E			
	11	1	5	NNE			Middle bed 1 0.
	1	1		NN			Middle part light airs
	2 3	9		N 137			and cloudy.
	4	2	5	CHION			
*	5 6	3	5	NWY	NE B	W	
•	7 8	ක ශ		2134			Ends pleasant.
ı	9	3	5	E1393			i ,
	10	3		8 6 13 8			
	12	3		98			
	Course	1182)ist.	Diff Lat.	Dep. Lat	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
١			,				
ı	H.	K.					Proach: May 15 M 1819
	1 2	3		98	ENE		Commences with mo-
	3	2	5	SEBE	NEIS	8	
	5	4		Euse	CYCYZ		derate breezes and pleas-
	6	4		060			ant weather.
Carried variables	8	4		EBS	WEB	W	•
Charles de la ch	10	4					Alidite part moderate
	11 12	4	5	Ecest-			Incorat & almosta
	1	4					breezes & cloudy.
ı	3	4					al 6 a.M. sent up fore
	4 5	4	5		•		royal yard
	6	4					al 10 a.M. set Loiver
	8	2					lop mast & top gal stud-
	9	2	5				
	11	2					ing sail.
	Course	3)ist.	Diff. Lat.	Dep. Late	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
	Uy M	40	my	21	74	,	35.50 22 89 13.01
3,	-		1				

	/	64	ina	from	9	Palem towards Giberalter
Н.	K.		Courses.			Remarks May 16 th 1819
1 2 3 4	3399	5	East	NBY		Begins with light be eeres and pleasant weat-
5 6 7 8 9 10 11 12	21100000		baln	2.		her. At y P.M. took in all the studing sails.
1 2 3 4 5 6	00000001	5	E/2 9			Middle part calm and cloudy.
8 9 10 11 12	40110	5	East L.E.	Den Lan		ends light breezes and variable. O. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jb.
Joy 2		ist.	Diff. Lat.	Dep. Lat	. by 1.	3.4.47 23 26 12,35
н.	к.	н.к.	Courses.	Winds.	L.W.	Remarks May 1mg th 1819
1 2	1	5	East	SSE		Commences with light
3 4	2/	5		South		airs and pleasant.
5 6 7 8	1129		,	FSW		at 2 P. M. set fore top ma
9	222			West-		and top gal studing sails.
11 12	1/	5				at of J. M. set the larbo-
1	2	5		NENE		and studing sails.
3	1,	5				
5	0.					Middle and latter par
6 7	0			WNY		to light breezes and pleas.
8	2					
10 11	3					ant:
12 Course	3	ist.	Diff. Lat.	Dep. Lat	by I	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
Y.6	061	3 ry	1/8	32		35.05 22 39 11.56

		11-11				90 10	A STANSON OF STREET	The same of the sa	a service en como se	
	1	on	nou			Palem				
Н.	K.	н.к.	Courses.	Winds	L. W.	Remarks	M	ay 18.	th 18	190
1	5		East	NW		7		1	end affiliation of all all agree assume some a	//
2 3	5-6					1 /				pesh
4	6	5		NWI	3W	breeze	s an	d p	lecis as	el gale
5	76	5				at 5	gr/	M sa	MI N	Brig
7 8	5	5								
9	5				1	prano	urig	NO CAL	ie we	strara
10	54	5		-		10.	U			4
12	5					Mide	rile ,	bart	stron	q bree.
1 2	55			- 100		3 es	and	blea	sant	but-
3	5					0	/	10.00	2,00	,
4. 5	5					Loud	y.			
6	3							٠		
8	6					Lake	er bo	art ,	bleas.	ant-
9	65	7	EBN				7	. 1		
11	4	7				,		45		
12 Course	4	Dist.	D'C I	0 11					4	
			Diff Lat.	124 /24	. by D.	R. Lat. by 0			Long. in 9,23	Long. by Ob
					The same of the same of	Control of the last of the las	The same of the sa	ALL A SOCIETY AND A SECTION AND ADDRESS.	E	The second residence of the second se
H.						Ren.a. les	Ala	y 29.	th 181	9
1 2	45	5	EBY	NH		B	0.1004		6	20/00
3	6	5								voder-
4 5	6	5			po	ale! I	reeres	ani	d pole	asant
6	0					Varia	lion	per	as in	19.59
8	3					,		,		
9	16	5				Mina	1/2.	hart-	000 000	100.10
11	0	5				Misso	· ·			
12	In his	5				breeze				
2	Ly					at my	30 G	! /m	spoks	e the
3 4	16					Span	ish	patri	of B	ris'
5	6									//
7	4	5	(1) 101	wi n		o rue	o er w	would	m	a cru
8	6		8 134	25		ye.				The second of th
10	5			NWN	W	Ul- 8, 8	30 sa	n b	ape &	perles
11 12	4					bearin				The second secon
Course	4		Diff. Lat.			R. Lat. by O	Varia.	Diff. Long.	Long. in	Long. by Ob.
Y 8 L	18	138	15	137	2	35,5	6 20	170	16.33	and the same state of the same
									Property of the Park Control of the Park Contr	

Kiram Putnum Master

H. K. H. E. Courses. Winds. L. W. Romarks May 20 th 1819 ~ 1	China	from Palem towards Giberaller
breezes and pleasant recorded by the stand of the same all necessary said set before the nind. All 3 P. M. Bake Sportell bone SP W distance 4 lead grees. All 3 P. M. Giberator cock bone NN. E. distance 4 lead grees. All 5 P. M. Giberator cock bone NN. E. distance 7 miles and latter partification breezes to pleasant. All 10 P. B.	H. K. H.K. Courses.	Winds. L.w. Remarks May 20. M. 1819
H. K. H.K. Courses. Winds. L. W. Remarks 1 2 3 4 5 6 6 7 8 9 9 10 11 12 1 12 9 10 11 11 12 1 12 1	3	breezes and pleasant rue alher all necessary said set before the wind. Out 3 P.M. Cape Sporteell bore SIM distance 4 lear grees. Out 5 P.M. Giberater cock bore N.N.E. distance my mile Middle and latter part fine breezes & pleasant.
H. K. H.K. Courses. Winds. L. W. Remarks 1 2 3 4 5 6 6 7 8 9 9 10 11 12 1 12 9 10 11 11 12 1 12 1	Noyane 184 42	
2 3 4 5 6 6 7 8 9 9 10 11 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rl. K. H.K. Courses.	
Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. of 10.	2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11	
	Course Dist Diff. Lat.	Dep. Lat. by D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. of Do.

					Lechum wards baleretta
h.	К.	н.к.	Courses.	Winds	L. W. Remarks July 13th 1819
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10	2222333557882688887655	55555555555	WBW. WBW. WBW. WBW.	Eust	Begins with light bree- ves and havy weather At 2 PM Giberaller Gock bowk Forth. Ott 11.30 P. M. Fariffa high house bow North. Midright strong breezes & clear weather. At 2 A.M. capse Spartel bor SSE distance 2 leagues from which I take my departure
11 12 Course Gay of	W.	I I	Dof Lat. 2/	105	by D. R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob 35, 25 19 1. 19 7, 10 West
1 3	5 5 4		W/25	North N°E	. Ovnies in with light breezes and pleasand weather
5 6 7 8 9	4 4 5 5 5	5 5			Wateh employed in gealing the anchors in.
10 11 12 1 2 3	5544435	55	West	,	and hazy took in and maid sail as necessary the
3 4 5 6 7 8 9 10 11	35654432245	55	SYW West:	East Núi E	Latter part pleasant op
COLIBE	9 11)ist. [Duff. Lat.	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 34.34 20 1.34 9.10

	· lo	hir	ra	from	4	de le contra la
Н.	К.	H.K.	Courses.	Winds.	L.W.	Remarks July 15 th 1819
1 2	4	lyi	ng W	NNE		Commerces with light be
3 4	(my			North		wees and hozy weather.
5 6	5	5 2		variul	e	
7 8	2	5				ellidelle part light breezes
9	52					and variable winds.
11	4	5				
12	4					ar a a M. took in Doyal
3	2 3 2					At 9. a.M. took in Royal and flying jil.
4 5	2	5				anu pyerig ju.
6 7	2			- 10 Su		
8	2	4 1	WNM			Ends moderate and ple
10	4		n'	West		us unt.
11	4		North		, Lie	
Course	34		Diff. Lat.	Dep. La	it: by 1	34,23 21 1,28 10,38
Н.	K.		Courses.	1	L.W	. Remarks Inly 16 th 1819
1	4		19V139	WWW	Bisi	
2 3	4	5	2 W	W/W		3º Begins with moderale
4 5	5	4		THUY		breezes and cloudy weather
6	54	35	I Way			
8 9	4 5	6				11: 12 back land
10	3	5				Middle part fresh bree-
12	14	0	.0000	4		zes ana flang
1 2	4	5	JW	NWI	3W	
3 4	5		8 W 18			At 5 a.M. set Proyals
5 6	5 54					and flying jet.
7 8	3	5				
9	3		TW DW			
11	2		SW13	W		
Centra	e 1	Dist	Diff. Lat.	1 - 4	at. by	D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Db.
28	M.	103	89	48		32.29 21 54 11.32

	f.	Ch	ina	from	Lo.	eghorn wards Calcutta
Б.	K.	H.K.	Courses.	Winds	L. W.	Remarks July 1 mg th 1819.
1 2 3	3	.5	SWB7 SWBWB	VW13	W 40	bommences with light
4 5 6	332222	56	WSW	NW		all necessary sail set by
7 8 9	3	5 5	West	NINY		the wind.
11 12	3 2 /		WYW	C 1/341/		Middle part moderale
1 2 3 4	222	5	IN J IV	OV IV		Oreeres and clear weather at to a.M. tacked ship
5 6 7	0		SBW NINGW	Locim		to the Southward & west
8 9 10	122	5	WW B	W		Warration per azimoreth
11 12 Course	2	5 5 Dist.	Diff Lat.	Dep. Lat	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob
462	72		12	33		31.58 21 39 12.11
н. 		H.K.	Courses.	Winds.		Remarks July 18 Un 1819
1 4 3	3 3 4	4	NW 	WIW	3	Begins with light br.
4 5 6	3	5	NWK	eV.		eezes and plusant nea
7 8	3333	7855				Variation per az m 21.36
10 11 12	3223	5	ww			Middle part moderate
1 2 3	4 4 5	5	NW13?	WWise V		brevjes and pajsing klow
4 5 6	4 9 34	5	Caluc			ds.
8 9 10	4	5 6	4	WNU		
11 12 Course	5	Dist.	Diff. Lat.	Den 11	h= D	P. J. Lat. by Ob. I. Varia . I. D. C. L.
NO	8 W	6 m		63	. by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 32,23 22 1,14 13,25

Hiram Putnam Master

,						ghorne towards Ealeretta
Н.	К.	H.K.	Courses.	Winds.	L.W.	Remarks July 19 1819
1 2 3 4 5 6 7	4433444	5 5 5	Mr 134	NN W North	·	bonnenes with fine breezes and pleasant
9 10 11 12 1	100 LL	678	West			Middle part fresh breezes and paysing clouds. At y a.M. set royals, slay
2 3 4 5 6 7	88884	5	W 13 S	N.C.		sails & flying jil and F. T. mast striding sail. At 10 A. M. set M. T.M.
8 9 10 11 12 Course	77000	5 5	N _X ,	Dep. La	t. by D	Conver & TG streding sail O. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
964	124	149	1:08	133		31.09 21 2.37 1.6.02
Н.		н.к.	Courses.		L.W.	Remarks Inly 20 the 1819
1 2 3 4 5 6	6665656	5		WEN.E		Begins with light bre ones and pleasant weather Variation per az m 20,56
8 9 10 11 12	5566	7 7 5				At 8 I.M. took in fore &. mizen Royals. At 11.30 saw the Island
2 3 4 5 6	5 5 6 7	45	*e			of Palmah bearing S. poa compass Merician set the larboa
7 8 9 10 11 12	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.6	¥471341	,		F. T. G shuding sail
Course	-	Dist	Diff. Lat.	Dep. L	at. by I	D. R. Lat. by 76. Varia. Diff. Long. Long. in Long. oy 16. 29. 16 21 1,52 17.54

5		0.1		,07	
			ina		Lechon cowards Calcutta
			Courses.		L. W. Remarks Fruly 21 st. 1819
2	8		y iriz f	313	Begins with fresh br-
3 4	7	8			evies and clear weather
5		3			
6 7	88877				at 4 F.M. the Island of
8 9	M	5			Palma Some SEBE per.
10	my	0		,	reompals.
12	6	5			Variation per wim 20.13 Was
2	5 mg	5		8/37	
3 4	5			WEBS	Middle and latter to
5	my	5		04 6 10 6	To will
7	655			0000	fine breezes and pleasan
8 9 .	5	4 5		636	
10	8	9			
11	5	5			
Course.	.1	ist.	_		t. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
233/1	4/	05	2 19	90	. 26.57 20 1-42 19.30
H. 1	К.	н.к.	Courses.	Winds.	L. W. Remarks July 22 a 1819
1	50	27	2 Sm	NE 13	Begins nuch fine bree
3	52005	77			zes and variable.
5	10			100	
6 7	6	7		NE	at of I. M. look in Fore &.
8	4	3			allizen top gul sails and
10	my	7		WE13	Se stay sails.
1 1 -	766	5			Miadie part moderate
1 2	M	3 5			breezes and cloudy.
i	10	5			arate producty.
3	my	ny			
	6	75			
8	M	5			Ends cloudy weather
1	M	5			Is ofine breezes.
11	6	5			
CP OCT		ist.	Diff. Lat.	Dep. Lat.	t. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
0 381	7	0 8	2:05	47	24.52 20 1.48 21.24

Mbiram Rutnam Master

China from Dechorn towards Celeritla
H. K. H.K. Courses. Winds. L.W. Remarks Inly 23 of 1819
1 b 5 9WBhNEB? 3 7 3 M2M breezes cloudy weather bearing ISE per compass and bearing ISE per compass all 10 7 5 12 7 12 7 12 7 7 3 4 8 8 8 9 7 5 8 8 8 9 7 5 10 8
11 7 m
Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long Long. in Long. by D
8327 176 2.28 93 2224 26 1.41 23.05
H. K. H.K. Courses. Winds. L.W. Remarks Inly 24 th 1819 1 8 8 17 13 4 NE 132 2 8 8 17 13 4 NE 132 3 77 15 10 8 15 11 12 12 13 14 15 15 16 17 16 17 16 18 19 19 10 10 18 15 11 12 17 17 17 11 12 17 15 11 12 17 15 11 12 17 15 11 12 17 15 11 12 17 15 11 17 12 17 11 12 17 15 11 12 17 15 11 12 17 15 11 12 17 15 11 12 17 11 12 17 11 12 17 11 12 17 11 12 17 11 11 12 17 11 11 11 11 11 11 11 11 11 11 11 11
1287/180 2 30 85 10 10 17 1 181 2 4 36

	. /	Ch	ina.		/	eghorn comuls balculta
It.	K.	н.к.	Courses.	Winds	L. W.	Remarks July 25 th 18190
1 2	6	6	8713	PNE	BE	Commences with m
3	17	M				oderale and pleasant we
4 5	7	5				ther.
6 7	76	5				at 3.30 F.M. san a
8 9	Ty	5,137				sail bearing IIM
10	7 887	7				pair pearing 55 /1.
12	2	5				
2 3	ind	5 5 6		-		
4 5	8	6				Middle and latter par
6 7	88					is fresh breezes and do
8	ing	3		ENE		ridy
10	10		3/3/1940			·
11 12	17	17	13811			
Louise L'88	27 1	Dist.	Diff. Lat.	Dep. Lat	t. by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 15 56 25,32 %
H.	K.	нк	Courses.	Winds.		Remarks Truly 26 th 1819
1	7		313TV			· ·
2 5	7			-		Begins mich fresh br-
5	1	4				eer es and cloudy.
6 7	776666					Variation per az m 16. 30
8 9	5					
10	5	5				Middle part stiff bree-
12	6			(3000)		zes and cloudy all necess
2 3	5.	5		ESE		ary sail set before the
4 5	5	5755				wend
6	3/2	3				
8	5	7	South			Ends fine breezes &
10	5,	6	Journ			pleasant.
11 12	6	15			1	
Cours	- 1		Diff. Lat. 143		t. by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 14"58 12 " 25.25
						1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /

Hiram Pritnam Masler

~~ *	. l	hina	from L	Peghorn towards Calcutta
H.	Ř.	H.K. Courses	. Winds. L.W	Remarks Truly 2mg in 18180
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9	55557000205050500055	7 7 5 5 42 5 5 7 5	WWE	looms in with bush cases and passing clouds took in starboard studion gsarls. At Midmioht bloudy Variation per wy 14,52 Latter part pleasant all stay sails and studings ails set.
10 11 12 Course 72 H.	2/28	5 Diff. Lat 151 2"19 H.K. Courses 5 5 5 5	. Winds. L.	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 12"/8 11" "59 242 p w. Remarks Inly 28 Mr 1819 ~ Begins with moderale
3 4 5 6 7 8 9 10 11	555555555	5 5 5 5 5	WW.	breezes and pajsing cloud Ut y P.M. look in M. sk. y al and mizen royal. Middle part light breez
1 2 3 4 5 6 7 8 9	0 3 3 3 5 4 3 2 1 2 9	5 5 5 5	Worth	Ends pleus ant:
11 12 Course 4 24	n	ist Diff. Lat.	1	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 11.05 12 "45 23.41

93	l	hina	from 2	beghown wands Coloretta
H.	K.	H.K. Courses		Remarks Inly 29 th 1819
1 2 3 4 5 6 7 8 9	1332001111	5 FIRE	ENE	Commences with breezes and pleasant. Variation per azm 12,56 At 10 P.M. Look in fall strutingsails and slaysail
11 12 1 2 3 4 5 6	100000111	lalm SSE		Middle and latter parts light breezes and a hot
8 9 10 11 12 Vourse	000011	Dist. Diff. Lat.	2 998	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 10"43 13 11 23"30 TV
ri.		H.K. Courses.		
1 2 3 4 5 6 7 8 9 10 11 12	1122233432113	- som	SSE South	breezes and variable. Ut 5,30 in royals and flying jit. Ut & tacked ship to the
1 2 3 4 5 6 7 8 9 10 11	4 5254452 220	5 88 Po Po S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	STANS NUM	Forethward and Eastward Ut 1 a.M. look in fore 8; mizen top gal sails at 5 a.M. set I's M J. G sails royals & flying jil
Course 9 3/	<u> </u>	Dist. Diff. Lat.	Dep. Lat. by I	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 10" O4 13 25 2305

Kiram Putnam Master

		WPUWIN DIWING BULLING
loh	ina from	Lechorn towards balculla
Н. К. н.к	. Courses. Winds	s. L.W. Remarks July 31 st 1819
1 2 7 5	SSE MY	Commences with light
3 5	8138 mB	
4 3 5 5 3 5		breezes and heavy rown
6 4	161	on.
8 2	Way	
9 6 5		Middle part squally no
11 my	mes	ith heavy run took in
1 6 7	7	
2 14	Wes	all the right such.
4 /		
5 5 5	•	Ends squaly with the
7 ry 8 ry		uner and lightning
9 6 5	90-10	2400
10 6 5	1/73	
1 6 5	10:00 1 2 1 2 2	Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. 10 Long. by Ob.
93/8 14		
4-10-2 - Annie Andrew Annie An	PERSONAL PROPERTY AND PRINTED PRINTED PRINTED TO STREET, STATE OF STATE OF STATE OF STREET, STATE OF S	
	Courses. IVm	
1 My 2 My	813 8 9m	Joeg ores rount grand
3 m 5		breezes and cloudy.
5 5 m		at og I m single reefed
6 6 5 5	-	fore and mizen top sails
8 6 3		Total write mission proposed
10 1	5	at 9 FM single reefer
12 6	9138/28	fore main top sail &
1 6 3	3138	· took in fore and mizen
3 6 6	2	lop gal sails & reefed span
5 6 3		1 100 1100
6 5	4	ker-look in MFG sail.
8 5	Sunava	al y a m set Al I Grail
9 5 6	TPRE/RE	at 9 am set FtoM J. G sails
11 6		
	Duf. Lat. Dep.	Lat. by D. R Lat. by Jb. Varia. Di.f. Long. Long. in Long. by Jb.
8298 14	0 10 00	5.49 13 1.14 20 36

Įa .	K	Wu	na	from	L	seghorn cowards Calcutta 1
1.	К.	н.к.			1 . W.	Remarks and 1879
1 2 3 4 5 6 7 8 9 10 11	645466665465	b my 3 5 5 5	91862 91862 91862	SW.	50	Begins with fresh breezes and cloudy with a heavy head sea.
1 2 3 4 5 6 7 8 9 10 11 12	36655555544444	5	JE1BS	J Megs		res and squally. Erial with fresh bree zes and heavy sea.
Course.	D	ist.	Diff Lat.	Dep. Lat.	by D. F	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
8288	8 19	18	1.53	60		3:56 14 61' 19.35 West
11. 2 3 4 5 6 7 8 9 10	44445454545554	5 55	Courses. FEZG FE	よいか	50	Remarks Ang. 3 d 1819 Commences with moderable breezes and cloudy weather. Variation per azm 13:45 Between 10 & 11 J. M. passed a Ship & 2 other versels standing to the Southward & Westward. Chiddle & latter parts from breezes & chidy.
Course.	5 Di	st.	666 Diff. Lat. 1			. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
Fryn	49	5	21 4	12 3	3435	

Hiram PutnamMaster

China from Leghorn towards Calculla
H. K. H.K. Courses. Winds. L.W. Remarks Chique His 1812
1 6 888 South my 0 100
2 5 4 South of Commences with fresh
breezes and cloudy. 5 5 5 7 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10
6 5 W. 10./116. sent disrove 100
7 8 6 yal yards.
10 5 m 18 52 8. At 4 P/m tacked ship
11 5 5 5 lo the Southward & Wrestro
1 6 7 58/08/28
3 4 5
Fouthward and Eastward
8 5
8 5 9 5 10 4 5 SE13828 zes sel lop gal sails.
11 5
Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. by Ob.
598 46 23 39 3.25 14 39 17.23
H. K. H.K. Crusses. Winds. L.W. Remarks ang 5 th 1819
1 4 5 98BESS 11 These twenty four hours
3 5 5 1221
5 5 5
7 4 5 9 8 13 9
10 5 SEBE SBN
12 5 6
1 6 5 2 6 5
3 5 5 88
5 5 6 4 6 8848
7 5 88138 1 13
10 5 nardly ensent for which. I allow so
12 4 5 9 alton 80 Ourse Dist Diff. Lat. Dep. Lat. by D. R Lat. by Db. Varia. Diff. Long. Long. in Long. by: Date
188% 83 10 82 3"31 15 1"22 16"DX

Thip China

		00.				
	1	Huni	v fi	om	L	seghorn wards Calculta.
fi.	K.		rses. V	10.		Remarks Ung b the 1879
1 2	5	n.h.	3927	1271	11	Commences with slew
3	5	Any.	3 /1/2/2			
5	5	fyr	139			dy breezes and passing
6 7	.6			,		clouds.
8	5	JYr,	137727	2		at 1 P.M. turned the
9 10	5	mg.	m			reefs out of the main
11 12	5	Phri	3mm	2		loja sail.
1	11	tria	460			ruges source.
2 3	4					g_{α}
4	4	JAM)				Middle and latter parts
5	5	MB	Suff			unfavourable vivids and
7 8	5					cloudy neather
9	84	my?	m			periody voedine
10	4	2.	100			
12	5	J'h	13/2			·
Course	0.06	Dist. Diff. I	01	6 Lat.	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
J 4 7	1		7 14"		When any disease of	2.59 15 136 17.39
н.	K.	H.K. Course		unds.	1	Remarks Cluy of the 18190
1 0	5	SWI	3hin	Sout	h11	B
3	5	5				solums pour sirong vi
5	5	o shop	n			Begins with strong be
6	5	3 1759				
8	6					Ut 8:30 P. M. single ree
10	5	6 897	13 m	8138		Ell 8"30 I. M. single ree fed the lops sails.
11 ²	5	5				
12	5					
3.4	5	16. 16. 16. 16. 16. 16. 16. 16. 16. 16.				ges with light showers
34	5	2000 m				zes with light showers
6	4	6 477	288	JE		of rain.
7 8	4	5		,		Variation per wym 14.00.
9	5	5 897	19			011
10	5	5				Latter part squally.
12 Course	6	ist. Diff. L	01.1.13	17		
	本人		1 - 1 - 0	2 1/1		1. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 1.47 14 1.42 19.19
		1		1:		12 / 1 / 1 / 7 / 7

Kiram Pulnam Master

	China	from L	Deghorn towards Calculta
Н.	K. H.K. Courses.	Winds. L.W	Remarks ang 8 th 1819
1 2 3 4 5 6 7 8 9	5 4 5 5 5 5 5 5 5 5 5 4 5 6 6 6 6 6 6 6	FFE 6	
11 12 1 2 3 4 5	5 5 5 5 5 5 5 5 5	Y E	At 9:30 let a reef from M. top sail. At y a. M. out all reefs.
7 8 9 10 11 12	5 6 6 5	I Day I fat by	At 10 A.M. sent rep fore &. Mizen Moyal yards. D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jo.
F2 H.	1 127 158 K. H.K. Courses.	45 c	5 Jours 14 00.45 20.04 00
1 2 3 4 5	5 5 45W 5 4 5 57M		breezes & cloudy weather. At 3 F.M. a heavy squall
6 7 8 9 10 11 12	4 4 5	ESE FEBE	handed royals and flying jib I. G. sails & reefed lops sals.
1 2 3 4 5 6 7	4 4 4 5 3 4 4		Middle part pleasant maid all necessary said
8 9 10 11 12 Course	5 5 5 99 m B 5 5 5 5 9 m B	4	Ends pleasant breezes all sail sel by the wind. D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. oy Do.
Smy	102 1"41	13	1"43 14 "18 20"17 97

	- 2	20		0	7-7	
		nvi	na	from	14	reghorn cowards Calcutta
H.	K.	н.к.				Remarks . Aug. 10 th 1819
1 2	5		87727	JJE		Commence if
3	10	5	(09/2 10L)	b .		breezes and clear weather
4 5	10	6	J/1/53	9		breezes and clear weather
6	5	6	JW 2.	JEB.	4	('
7 8	5	5				Varrialion per azm 12.227
9 10	506	3				
11	6					
12	4					Middle pert moderale
2 3	4					bieeres & pleasant, sent up mven royal yard.
4	4		100			rep meen royal yard
5 6	5	6-	P413	P		
7	5	5				
8	56	5				
10	5	5				
12	5	5				
Course.	6	Dist.		4 - 1	t. by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
12	YXI	30	1"55	60		3.32 12 1:00 21-17 West
d.	K.	H.K.	Courses.	Winds.	L.W.	Remarks aug. 11 th 1819
1	6	/2	YW 134	4813	8	
2 5	5	0	1		•	Begins with steady
4 5	6	9	9424	440		traces and passing cloud
6	.6		10.	od E		Teople employed in no
7 8	ry	5	84134			ming the cables.
10	70	55	SYN'2	h		at 6 P. M. took in the
11	6	5				
12	my					slaysails. At of I'm too.
2 3	4		· 100 101			in the royals & flying je
4	6	5	37139			Ul 10 single reefect fore
5	7/2	5	3 9 W			& Mizen I sails.
7	66		54713			ai g a. M. single reefe
8 9	Ty	4				
10	ry	10	10100-1	¥ 2		Main lop sail.
12	27		TYWZ	P		7 0 10
Course.	211	ist.	Diff. Lat. 2.3/		by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
19	11	40	2 31	53		6.09 12 54 22:11

Miram Pulnum Master

	China from Leghoin towards Calculla
H.	K. H.K. Courses. Winds. L.W. Remarks Ung 12 th 1814
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 10 11 11 12 12 13 14 14 15 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	To STATE STATE Latter part producte but 5 4 19 19 19 19 19 19 19 19 19 19 19 19 19
12 Course	Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
82	153 2.13 72 8.36 10 1.14 23.25
н.	K. H. K. Courses. Winds. W. Remarks (ling 13 th 1819
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6	3 5 South Eggs II Begins with frish bree 3 5 FW 128 2 Selfs III Begins with frish bree 3 2 5 AND Self Selfs III Begins with frish bree 3 2 5 AND Self Selfs III Begins with frish bree 3 3 5 FW 128 Selfs III Begins with frish bree 4 10 1 Minen Lop sails. 4 10 Minen Lop gal sails ince 5 5 5 SW 18 5 Self Self Self Sails ince 5 5 5 SW 18 5 Self Self Self Self Self Sails ince 5 5 5 SW 18 5 Self Self Self Self Self Self Self Self
7 8 9 10 11 12 Course	10 m seefell the start of 5 5 9 1/34 Uli 9 al M reefell the start of 5 5 5 9 1/34 Unker. Some of the start of 5 5 5 9 1/34 Dist Dist

Ship Khimu

-	/	tiste	irea	from	Legherer cowards Cateratia
н.	K.	н.к.	Courses.	Winds	L. W. Remarks (124 14 Hr. 1814.
1 2	5		PSYNSY	V9813	45 B
3	j	5	thist		Begins with strong bu-
4 5	6		14434		eg es and paysing stouds
6 7	10	5	11/1/2		
8	5	5			Vanie per ag " 8" 38 West
9 10	10	5	1 /17		At b Fim. sent down Roy
11	10		1.1 h	4.5	
1	6		,/ ,/ //	1' (ick yards.
3	5				alledette part strong yelles
4 5	0				word cloudy double reefed
6	1	5	けらわ	1. PSE	fore and miner lop sails
7 8	1:				Lutter part strong brades
9	E.	5	J. tr	J +	The second of th
11	5,	6			
Course	. 1	j Dist.	Diff. Lat.	Dep. Lat	tt. by D. R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob
illy	A	1	2"16		
Н.	K.	H.K.	Courses.	Winds.	
1	my	- Andrews	FIST	Annual Property and Publishers and P	12
2 3	M		4. Pm		Strip under single reefer
4	7		CACUL	JE	dop sails
5 6	6	4	fring Ston	78	Vane per as my yet West
7 8	ry	6	Fr the	12.	a b I'm look in migen
9	10	5			
11	5	3	11347 4343 F.		lofo gai sui.
12 1	5		JAN		11.
2 3	5		fy/ha.		Middle part squally look
4	5	5	031	2	in jour lop que suil.
6	56		Strts.		
7 8	7		ff the		Saller part more moder.
9	0	5	9 WB	PSif.	
11	7	5	y W		ale sel dops que sails out reif
Course	6)ist.	Diff. Lat.	Dep. Lat.	t. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
924			2" 15		13"12 m 1"02 126"28
-					

Miram Putnum Master

	711.		Leghorn towards Calcula
Н.	K. H.K. Courses.	1	
1	5. Syn'2!		Remarks Arey 16 th 1819
2	0	0 2 2 3	These Inventy four hours
3 4	6 84m		sleady breezes and pleasant
5	6 87729		10 811
6.7	10		weather all necessary sail
8 9	5 8 99773	tir	set.
10	6		Variation per azm 6.06 tr
11 12	6	8828	Turned the reef out of mix
1	0	0020	
2 3	5 5		en top sail.
4	5 17123		
5 6	5 8 70		
7	5		
8 9	5 5 711m	Tr	
10	5		
11	5 5		
Course			R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ju.
831	12 133 1154	68	117.1 6 111 27.39
Н.	K. H.K. Courses.	Winds. L. W.	Remarks Ung. 179. Mr. 1819
1	5 3m	999 5	Begins with moderale
3	5 5		
4 5	5 5		breetes and pleasant wear.
6	5 JANGY		Mrer.
7 8	5 5 f. W 2 2	ė l	Variation per az m 5-11%
9	5 5 887		Mianight heavy squalls
11	5 5	186	
12 1	6 00000		look in top gal sails &
2	5 99 W		single reefect the lops son
3 4	5		at 5 a m reefed the Main
5			sail
6 7	5 4n134	0	Y
8	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Latter part squally with
9	4 813m		rain.
11	4 88m		
12 Course	- 4 Diff. Lat.	Dep. Lat. by D	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
135	120 1.38	68	18.44.5 1.12 28.51

128 1/22 1-52 40 20 HI 5 "50 20 HW B. K. H.R. Courses. Winds. I.W. Remarks Chief 10 Mh 1810 V 1 5 5 5 5 5 5 5 5 5 5 6 6 6 5 7 6 6 6 5 7 6 6 6 5 7 6 6 6 5 5 5 5			i ()		1831	_/_	
1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5							
2 3 5 5 5 5 5 9 4 5 4 5 5 5 5 5 9 4 5 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	H.	K.	н.к.	Courses.	Winds	L. W.	Remarks (1219-1811 1819-
3 3 5 3 5 7	1		(PhB J	99813	811	B
4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		5	5	P.P. M			
GOUSE DEEL DOEL Lat. DOE. Lat. by D. R. Lat. by Ob. 18 June 18	1	5	3				ong breezes and cloudy
8 6 Shift St. Who sail. 11 5 Shift St. Who sail. 12 3 Shift St. Who was sail. 13 5 Shift St. Who was sail. 14 4 4 5 4 Shift Was a was sail. 16 5 4 Shift Was a was sail. 17 3 Shift Was a was sail. 18 4 Shift Was a was sail. 19 5 Shift Was was sail. 10 3 7 Shift Was was sail. 10 3 7 Shift Was was sail. 10 3 7 Shift Was was sail. 11 5 Shift Was was sail. 12 6 Shift Was was sail. 13 Shift Was was sail. 14 Shift Was was sail. 15 Shift Was was sail. 16 Shift Was was sail. 17 Shift Was was sail. 18 Shift Was was sail. 18 Shift Was was was sail. 19 Shift Was was was sail. 19 Shift Was was was sail. 19 Shift Was was was sail. 10 Shift Was was was was sail. 10 Shift Was was was was sail. 10 Shift Was w	6	6	10				
South 12 5 5 5 9 9 1 1 2 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	1	-		fly th	18		Al & Min social main
11 3 5 5 9 1 1 2 4 3 1 4 4 4 4 5 4 4 5 1 5 1 4 4 5 1 5 1 5 1		5					will have present processed
1 3 4 4 4 5 4 5 W 28 3 of the lop sails and set top 5 4 5 W 28 3 of the lop sails and set top 5 4 5 W 28 3 of the lop sails and set top 5 4 5 W 28 3 of the lop sails and set top 5 4 5 W 28 W 29 W 20 Sails with fine lope. 10 3 7 fly W 20 Sails with fine lope. Lat. by D. R. Lat. by Ob. Varia Diff. Long. I Long. by Ob 23 W 122 1 5 5 5 5 5 5 5 5 8 W 28 W 29 W 20 W 18 18 10 V 20 W 18 18 10 W 18 10 W 18 10 W 18 10 V 20 W 18 10 W 18	11	5	5	829			sour.
2 4 3 4 5 4 5 7 8 3 of the lop sails and set to 5 4 5 7 8 4 5 7 8 8 4 5 8 6 5 8 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		-					
4 4 1 5 4 1 5 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4		ony y			Ul 5 AM. let a perfort
Lap yal sails Strby.		4			EPE	3	of the lab sails and set
They show the first bree- 10 3 4 5 4 5 4 5 5 6 6 6 6 6 6 6 6	!	4	11	1 Jan			
10 3 7 SPW 2 S S STREET All Soul SE 11 5 7 SPW 2 20 H 5 "30 20 H W S S S S STREET AND SE LONG. BY ON 123 x 122 1"52 4" 20 H 5 "30 20 H W S S S S S S S S S S S S S S S S S S		5	4	OH 2.			
Course. Dist. Dist. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Dist. Long. Long. in Long. by Ob. 123 \frac{1}{2} \frac	}	5		Jerry .	Hr		
Dourse Disc. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. in Long. by Ob. 128 122 1.52 4.7 20 41 5 "50 20 41 W 11 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1	5	ny				ges & polecisant all sail se
H. K. H.R. Courses. Winds. I.W. Remarks Wing 14th 1810 C 1 5 Jym S& H Shaper S with moderate bear of the as int method of the said of th				J. FTV			
H. K. H.R. Courses. Winds. I.W. Remarks (Lug 10 Mh 1810 V 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Course	01				by D.	
Jensey es with moderate iner es with moderat	0 20	141	22	1"32	411		20.41 5 "50 20 11 1
Solver of the so	H.	K.	H.K.	Courses.	Winds.	L. W.	Remarks thing 19 Min 1810.
Sold Styles & Styles				Sym	18	#'	118
Styles of the styles of the state of the content of			2	of contract of	1144		
10 6 3 19 W B Variable part simily so Middle part simily so Middle part simily so Middle part simily so 11 12 6 5 19 W B Variable part prince part of the sant at 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		6	0	f by Wa	in		biseres and pleasant we-
8 6 5 18 W SE Variable part simally so Middle part simally so Middle part simally so Middle part simally so 12 6 5 1 4 5 5 5 4 5 8 4 5 5 5 4 5 8 4 5 5 5 4 5 8 4 5 5 5 4 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 6 7 6 8 6 7 6 7	6	6	9)	JWB.	P		the.
Solver Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. by Ob. Child of B Sunday Su			3	99m	y 8		Variation ber is m 2004
1			5				
1	11	0	2		6.02		
2 6 3 5 9 W B			3	9	i di		must prefex J. B. W. Lojo sa
4 5 6 5 6 7 6 8 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9		0		fyming 10	m		
Shirt Selver from the following with all sources. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. 200 1	4.	5	5	3 WY 13			
8 6 9 6 9 7 13 8 10 10 6 11 2 4 Sel. Source. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. by Ob. 200 10 10 10 10 10 10 10 10 10 10 10 10 1					+8Pm	,	Faller brust la Proposate all
9 0 10 6 11 12 2 4 Source. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 200 12 2		6		P+12-12-4	d		1)
10 0 11 12 2 4 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	6		9/2 B	P		sul sel.
12 5 4 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 200 A 143 100 A 143 10				0 7 7 8			
20th 1/12 10 A 1 tot 1 20 00 C 20 1 tong. in Long. by Ob.	12					l	
77 113 08 22 113 30 5412	Course	41				by D.	1 22 20/2 20/1
	29	1	170	179	08		2238 2 11/3 30:541

Hirum Ritmam Master

China from Lo	extrom towards Calculta
	Remarks Uniy 20 Hh 1819
1 5 5 SSW2N GE 2 5 7 SSW 4 5 5 5 7 SSW2N 6 5 3 SSW2N	Commences with mod- erale breezes and pleas and weather.
6 5 3 3 9 W 2 4 99 4 9 5 15 5 9 by W 5 2 15 8	Variation per uz ma 4"30 1"41 Middle part moderale bri
12 4 1 3 5 2 3 5 3 3 4 1 5 5 1 5	eer es and cloudy. Watch
6 1 5 7 1 5 8 1 5 58 138 ENG 9 1 5 10 1 5	Ends light breezes.
8257 84 1"18 33	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by 30. 23.58 36 31.36
H. K. H.K. Courses. Winds. L.W. 2 / 3 / 4 2	Begins with light airs & pleasant weather
5 / 5 6 / 7 8 2 9 2 5 10 2 5	ge Shork.
10 2 5 11 2 5 12 2 5 1 2 5 2 2 5 3 2 5	Sel Lantound structurgs and
4 1 5 6 " 5 8 4 Balov	
10 4 11 4 12 /	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Do.
Course Dist Diff. Lat. Dep. Lat. by	24"28 "22 31"8 West

Ship Khinu

Ì		1	ih	mu	from	Los	eyherre cowards Coulcutta
	Б.	1	н.к.	Courses.	Winds	L. W.	Remarks Uny 22 d 1819.
	1 2 3 4 5 6 7 8 9 10 i1 12 1 2 3 4 5	23344444555555563	5 66 6 5 5 5 5 3 3	SE C	Winds	L. W.	Remarks Unity 22 of 1819. Begins with light breaks eires and pleasant weath Of 2 I.M. set larbourd lower stridingsail. Ot 3 I.M. set barboard. main topmast & lop gal stridingsails. Varia per az ma 4:30-1-24 to
T ₁	6 7 8 9 10 11 12 Course	1 30		1"24	88	Manager Street Confession Confess	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
	1 2 3 4 5	7667	H.K.	f E	Ninds.	L. W.	Remarks ary 23 d 1819 - Commerces with steady breezes and pleasant wear
	6 7 8 9 10 11 12 1	14 88 8 14 14 14 18 8 8 14 16 16 16 16 16 16 16 16 16 16 16 16 16	5				en. Middle frant fresh breezes and plear weather.
	2 3 4 5 6 7 8 9 10 11 12	8 my my may be to	55555				Ernels fine breezes.
2	ause.	Di E /	1	0iff. Lat. L		by D. R	2 7 28 3 2 20 2 27 11

sails & Mr. I must studing sails & Mr. I must studing sails. Worth, At 11 PM took in royal sails. the mednight reefed top sails. the mednight reefed top		China	from Leghorn towards Culcutta
Sel of the property of the pro	H.	K. H.K. Courses.	Winds. L.w. Remarks Clary 24 Ath 1819
12 % 6 6 5 7 6 5 6 6 6 5 7 6 6 6 5 7 6 6 6 5 7 6 5 6 6 6 5 7 6 5 6 6 6 5 7 6 6 6 6	2 3 4 5 6 7 8 9	6 6 my 5 6 6 6	ale breezes and pleasant. neather all necessary said
By Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. I Long. by Ob. From 145 145 153 111 2857 3 2006 2503 H. K. H.K. Courses. Winds: L.W. Remarks Wing 25 the 1819 By Charles of the State	12 1 2 3 4	5 5 5	moderale Lucezes and ple
Jegins mith fresh bree 3 3 5 5 6 6 5 7 7 8 6 5 8 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9 10 11 12 Course	7 7 5 6 5 e Dist. Diff. Lat.	Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. io Long. by Ob.
3 3 5 5 10 5 6 6 5 7 7 7 5 6 6 6 5 7 7 7 8 6 5 7 8 6 5 9 7 8 6 5 9 7 8 6 5 9 7 8 6 5 9 7 8 6 5 9 7 8 6 5 9 8 6 5 9 8 6 5 9 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1		
1 8 5 2 8 5 (It midnight reefed top) 5 my 5	3 4 5 6 7 8 9	5 76 5	all b I'M look in lops gal sails & Mr. I must stricting
	12 1 2 3 4 5 6	8 5 8 8 8 5 7 5 5	& top gal sails.
Soul sint down royal you	8 9 10 11 12	hy hy b se Dist Diff. Lat.	Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. ia Long. oy Do.

Ship Likina

	t	Thi	nu		
Fi.		н.к.	Courses.	Winds	L. W. Remarks Ung 26 th 1819
1 2	8	3	sene;	NY	Begins with strong
3 4	8	5			brieres rainy weather.
5	6	5		North	
7 8	8			3,0,0,0	study & M. poyal.
9 10	178	8			Middle part strong be
1 12	7	m		NNE	
1	8			CYCIE	eczes and cloudy. At 2 am
3	8				wood in hop gat sails doub
5	8	7			respect fore & mozen tops s
6 7	hi hi	3			ls & single respect main
9	M	6			tops suil en 9 choje rééfect ?
10	10	5			top sails. Ut 10 look in J. 8.
12 lourses	6	5 ist.	Diff Lat.	Den I I at	tops sails & respect to sail.
0	4	-			by D. R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by O
H.	К.	н.к.	Courses.	Winds.	L.W. Remarks Ung 2 y Hi 1819
1	6		PEBE.	E 1/130	A Di
3	60)		N 100	Sirvery & javornable gale
5	6	2	PE138		and a trivey sea.
6 7	6	5		N.N.	
8	6	555			sluresail.
10	6	5			al 2 J. M. sent down
12	6	5			fore and mozen lop ga
2 3	my				yards.
4 5	14/4				Middle part more mor
6	ing	4			erate set close reefed for
8 9	14	5		NW	& mozen top ails.
10	16	2	6		Ul 5 a.M. out all reefs.
12	7	5	ESE		
P.69	\$ 1		111		by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 2"12 32"23 8 2"59 15"50
	7				2 / 2 0 2 / 0 2 0 7 / 0 " 0 9

Hiram Putnam Master

ENQUOUND STUDIO EN CORRECT
China from Leghorn towards Calcutta
H. K. H.K. Courses. Winds. L.W. Remarks Aug 28th 1819
1 7 5 ESEN Wyer Strong breezes and clou-
4 9 9 dy weather.
6 7 8Bg. Ul 4 J.M. set main lop
7 7 5 must slaysail.
10 5-7 Styth Middle part moderdle no
12 6 alther and cloudy.
1 2 6 5 au 5,30 d. M. trumed out
3 2 will needs set I top mast stugge
6 4 5 Catter part pleasant lent
8 4 5 . Iby 8 3° a men main top gal sail
10 9 5 unbent the spunker & lent
10 by 5
Lourse Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 985/150 12 12 32 35 32 29 19 2 30 125 4
H. K. H.K. Courses. Winds. L.W. Remarks Ung 29 Hr 1819
1 6 my Seby E2 Mester Begins with light airs
4 6 5 all sail set before the wind.
6 5
8 4 5 At midnight took in
2 1 Variation per azm 17 12
3 0
5 1 1 1 PS by A O O 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 5 PebyEt & NE & main sail. Es stridg sails
8 7 5 Emds rold & cloudy
10 8 Philo render single reefeat
11 8 lub sails
Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Jb. Varia. Diff. Long. Long. in Long. og Do.
Pays 116 34 16 38"03 11 2"10 10"44 West

	1	The	nou	from	Le	ghow cowards Calcuttu
fi.	К.	н.к.	Courses.	Winds	L. W.	Remarks Ung 30 Un 1814
1 2 3 4 5 6	Shall		SEby E SEby E SEby Ez	NE E	n	Begins with strong be- ev es and pointy weather. ship under close reefed
8 9 10 11 12	88	75 5 5				loge reefect all top sail & look in fore & mizen top
1 2 3 4 5 6	8 8 8 8	56				sails jit & main sail. Ut 4 J.M. set fore top sail
6 7 8 9 10	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3				at 5.30 reef out of fore & M lofo sails & set M lop said at b"30 tel a reef out of the
	1881	Table Solver and	39	180		R. Lat. by Ob. Varia Diff Long. Long. Long. by Ob 33:36 12 3:35 m. 09 9 Vest
1 2 5 4	9 8 8		Ebys	Winds.	-	Remarks Aug 31 st- 1819 - Commences with strong breezes and hazy weather
5 6 7 8	0 6 6 6 5 5	5 655	s E by	C YVV		with a large following sea.
10 11 12 1 2	88080	5		Y S W		Middle part fresh breeze & squally.
3 4 5 6 7	9x x8x	5 53		Par		Fil jil Is spanker.
8 9 10 11 42	88877	อั		SW		Louller paart fresh breezes umder single reefect topsail
F8/	0	st.	601	Dep. Lat.	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 3 4 6 6 13 3 4 48 3 12 West

Biram Putnam Master

	K	hu	nou	from	Ti	eghow towards Calcutter
H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks Sep 1 st 1819
1	ny	0	PElry/E	ISIN		Begins with moderate
3	ny	5				
4 5	7	7				breezes and cloudy weather
6	8	5		in 1 1		al 1 F.M. set Main top
8	78777	5		I by	12	mast staysail.
9	5	7		V		
11 12	5	5				Middle part moderate bre
1 2	7 5					ezes and cloudy.
3	376	5				
5	4	5			*	al 5"30 a. M. trumed out
6 7	4 5			2 0 10 6		all reefs.
8	24	5	Ely S	SHOE	3	Lutter frant bent a nen
9	3	5	EBY2	P		top yal sail & storm Mizes
11 12	2	3	8129			
Course		Dist.	Diff. Lat.	1		D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
Jy	The !	137	31	132 0	34"	
11.	K.	н.к.	Courses.	-		Remarks Sep 2 d 1819
2	2		CBY	Seby		Commences with light
3 4	1		E Ber			airs inclining to a coulm
5	2	5	NEMB	8		
7	0					
8	2		999W			Middle but bal in
10 11	3		4		.,	Middle part book en
12	4 5	2	186		5	fore and muzen top gal
2	2	2	(1)			sails.
3 4	5		8	646		Variation per wy m 17, 12 h
5 6	5		9/28			Ut 11 a. M. look in Sil
7 8	5		8			and main sail.
9	5		9/2 n	-		Ships under single reafer
10 11	5 5					
12	4	3	Diff. I	Destit	t he I	Lofo s culs. D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
Sourse L/		ist :	Diff. Lat.		35"	

	K	huna from Leghorn cowards Calculla
Н.		H.K. Courses. Winds L. w. Remarks Sep 3 of 1819
1	4	9/2 4/2 OPO 24 2
2 3	5	Option degins with fresh bu-
4 5	4	lower les and cloudy.
6 7	4	5 000 00 Well to et. /m. hacked ships
8	4	lo the Northward & Eastwa
9	4	5 and double reefect forei 45
11 12	4	Main topsails.
1 2	4	5 EBN STE UI 10 De Mr close reefect
3	4	5 828 fore and Migen topsails.
5	4	Jose with control registers.
6 7	3	EBN III
8 9	3 4 5	5 8/2 N Middle and latter purts
10	3	snong bierzes and squally.
12	5	East
Course	b	ist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. Fo Long. by Ob
H.		Olocov Color Remarks Sela 4 th 1819
2	<i>5</i>	Elist 27 3/28 11 Begins with fresh you
3 4	5	5 gales and squally.
5	5	variation per agm 19"14 4
7 8	5 5 5	5 ES & South
10	5	Middle book was He
11 12	5	Middle part squally
1	5	5 vith pain
3	4	5 At 9 U.M. look in the
4 5	54	5 occavia
6 7	5	ETE/28
8	5	5 Ends fresh gales and
10	4	5 PBE squally.
11 12	4	£ 138/28
Cours	410	ist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
OB T	10 Z	17 28 113 34.25 " " 19 2"17 2.38 Sust

Hiram Putnam Master

		ח וו	0,4	poor		Communication Columnia
	K	M	no	from	Lo	eghorn towards Calcutter
н.	К.	н.к.	Courses.	Winds.	L.W.	Remarks Selp 5 the 1819
1 2	5	\$	1/28	SHE	11	Commences with strong
3	8		East-	940		
4 5	5			FFE		breezes and squally.
6	4	5	6/2	. 0		al 4 P. M. puned peef
7	4	5	626	F		out of main sail.
8	4	9	E by SI	29		
10 11	4					At 9 1. M. let a peef out
12	3	5				of main top sail & sel
1	3	5				main lop gal sail.
3	5					
4 5	5		OBS	40		Ul 10 9 m puned a reef
6	5			20		and fore & mozen top
7	4		E13NI	ril		pails & sel lop gal sails.
8	4		8N8			
10	5			Corpi		Var per a m 21 West.
11	4	5	Bast	158		
Coniso	4	Dist.	Diff. Lat.	Dep. L	it. by 1	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jo.
Nb	481	103	45	93		33"45 21 4"29 4"29 Gast
н.	K.	н.к.	Courses.	Winds.	L. W	. Remarks Sofa to the 1819 C
1	5		BN	WNo	36	Commences with mod
2 3	5	5	ENE			
4	4			46		erates proes es and pleasa
5	4	0	NEBE	AE.		weather!
7	3	5	NEB	E		Var. per az m 21118
8	3		S. Jan	w		
10	2		11/4			at 8 P. Mr. tacked ship
11 12	4		(A/			
1	4	5	JAM.			
3	2	3				
4.	1	5				Middle & Patter parts
5 6	2	5				moderate and pleasant
7	3		9WB	4		all sail set necessary
8	2					and per present
i(;	2		994			
11	2	.9-				
· louise	-	list .	Diff. Lat.	Dep. La	it. by I	D. R. Lat. by Db. Varia. Dif. Long. Long. in Long. by 10.
880	189	20	4	19		33"5121 23 4"52
						A STATE OF THE STA

	1	Chi	na	from	To	eashorn couris Calcutta
П.	K.	H.K.	Courses.	Winds	L. W.	Remarks Sopo ry Un 1819
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7	122233333445556677	5 5 5 5 4 5 5 5 76 5	Shy M Shy E/2 Sy E/A Se MS			Commences with light breezes and pleasant moderate and ploudy. (It 3"30 ch. M. set stay said and fore top mast street- ingsaid
8 9 10 11 12 Course \$5	721	5 6 0 Dist.	Diff Lat.	95		R. Lat. by Ob. Varia. Diff. Long. Imag. in Long. by Ob. 35"07" 22 1"54 6"46 East.
1 2 3 4 5 6 7 8	8 8 8		P E	NE N		Begins with strong breezes and pleasant weat ther. Var. per azm 23" 17 West
10 11 12 1 2 3 4 5	99999999988	5		NM		At & A. M. set Lower & main I'G stredingsail At 10 a. M. sent-rep fore Proyal yard
6 7 8 9 10 11 12 Course	2888882	5 5 5	Diff. Lat. 1	Dep. Lat.		Ends with fresh gule & pleasant. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
860	4 2	03	1.29	182		36.36 23 3"45 10.31

Miram Putnam Master

OD: COM COUNTRY COURSED
China from Leghorn towards Calculta
H. K. H.K. Courses. Winds. L.W. Remarks Sels 9 th 1819
1 8 5 9 2/2 & N These towerty four hou
3 8 5 6 In fresh gales and pleas
6 7 7 7 ant weather.
7 8 7 5 NNW
10 8 Muddle point steady breef
11 8 5 ges and cloudy.
1 8 2
3 8
4 8 5
8 7 7 Latter part fresh breezes
10 7 6 and pleas ant
11 8 8 8 8 8
Course Dist. Diff Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
9758184 "49 183 3725 3"44 14 20 East
H. K. H.K. Courses. Winds. L. W. Remarks Seps 10 th 1819
1 7 5 88138 N Bagins with fresh bree
3 7 4 5 5 7 8 5 Mills to the land
5 7 5
7 8 5 Middle part fresh bruers
9 mg to menthers
10 7 7 les and crean procumer.
12 8 5
2 8 5 Variation per uz 25, 29 Wis
3 8 8
78
10 8 5 11 6 5
12 8
Pry 9 188 37 185 381102 3"55 18"15

		0-0				14 rur w
	1	HU	na	from	I.l	ghorn comas Calcutto
Н.	К.	н.к.	Courses	Winds	J. W.	Remarks Seps 11 th 1819
1 9	8	10	FEBE	(North		Front land market
3	8					First part moderate
4 5	My	7				breezes and pleasant mea-
6		5				ther.
8	7			NNY		Var. per wym at 4"40 PM 2
10	4	5				Ut. 11 P.M. set starbourd
12	5	5				
1	6			1		main top must studing
3	17			The North		prest.
4	7	6				Middle faart set starkou
6	7	3				L'oner stridingsail
8	8					al 4: U.M. set starbound
9	8	5				
11	8					M. J. G. striderigs ail
12 Course	7	le Dist.	Diff. Lat.	Dep. Lat	by I)	R. What by Ob. I Varia I Diff. Form, I Long in I Long by Ob
170	881		6	172	· Oy .D.	88.168 . 3.139 21.54
Н.	К.	HK	Courses.			The state of the s
	-		Petry Co	(i)	L. W.	Remarks Seps: 12 Wh 1819
2	8		J Chig C/2	Who	8	Begins with strong br
3 4	7	5				ses is word cloudy weather
5	6	5	PE by &			all sail set before the m-
i	6		7			ind
	7	5		1		
; ; ;	7	5				Ul b. J. M. took in m-
1,	18					an top mast top gall
	8	5				& Larbourd loner street-
4	8	3				ingsail. At 10 in all stru-
3 6	7	6				dingsails. Al 2 a.M. took
7	7	9				
β 9	8					in M. suil & double reafed
10	4					the tops suits.
12	3					The second secon
W81	681		Diff. Lat.	Dep. Lat.	by D. F	R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. 37"54 28 3"51 25"44
				7		37.54 28 3.51 25.44

Kiram Rutnam Master

H. K. A.K. Courses. Winds. L. W. Remarks Sip 13 th 1819 1 7 5 8 8 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10		Ch	w	roi	from	L,	eghown towards Calcutta
2 7 5 1 3 17 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H.	K. ;	ı.K.	Courses.	Winds.	L.W.	Remarks Sap 13 th 1819
H. K. II. K. Courses. Winds. L. W. Remarks Sep. 14 th 1819 1 6 Sely & WWW Commences with strong breezes and squally weal- being the self of the self	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 11	77777888878778888	55555		WW	w	Begins with strong breezes and heavy squalls an and handed it. Ut-10 PM set the mizer Middle part strong breezes and heavy squalls. At 5 a. M humed a reef out of the top sails, set the top gall sails jib & Main
H. K. H. R. Courses. Winds. L. W. Remarks Sep 14 th 1819 1 6 Sely & WNW Commences with strong been as a way squally weal- been so and squally weal- her. 7 3 4 8 4 9 5 10 6 11 4 5 West Colored and migen tops and squally fore and migen tops and squally seefed fore and migen tops and squally seefed fore and migen tops and squally seefed fore and migen tops and solvery. 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		9 9 P	ist.	Diff Lat.	Dep. L	et. by D	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
1 6 Style MNN Commences with strong breezes of s	8	481	86	19	1		
Solvey squalls close respect for and squally weak her. Nor per we no 28" 42 West her. Alidnight fresh gales & heavy squalls close respect fore and mixen tops saw fore and mixen tops saw slowly. The solvey is greatly breezes & slowly. The solvey is greatly breezes & solvey. The solvey is greatly breezes & solvey.	Н.	К.	н.к.	Courses.	Winds.	L. W.	Remarks Sch. 14 th 1819
Solution of the state of the st	1	-	0	PEby &	mi	In .	Commences with strong
her. Nor. per we'm 28". 42 West- Var. per we'm 28". 42 West- Odlichnight fresh gales & heavy squalls close reefect fore and mizer tops saw fore and strong breezes & plants glovely. Diff. Lat. Dep. Lat. by D. R. Lat. by D. Varia Diff. Long. Long. by 30.	3-	3			West		
Var. per wz m 28.42 West- No. per wz m 28.42 West- Alidnight fresh gales & Alidnight fresh gales & heavy squalls close neefect fore and mizer tops saw fore and shong breezes & Pourse Dir. Diff. Lat. Dep. Lat. by D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Jo.	1				17900		had a say
Alidnight fresh gales & heavy squalls close neefect for the following for the said						`	Dr. In marin a come of Hart
allidnight fresh gales & heavy squalls close neefect for and mizer tops said fore and mizer tops said fore and shory breezes & closely. Douise Dir. Diff. Lat. Dep. Lat. by D. R. Lat. by Db. Varia. Diff. Long. Long. by Jb. Douise Dir. Diff. Lat. Dep. Lat. by D. R. Lat. by Db. Varia. Diff. Long. Long. by Jb. Douise Dir. Diff. Lat. Dep. Lat. by D. R. Lat. by Jb. Varia. Diff. Long. Long. by Jb. Douise Dir. Diff. Lat. Dep. Lat. by D. R. Lat. by Jb. Varia. Diff. Long. Long. by Jb. Douise Dir. Diff. Lat. Dep. Lat. by D. R. Lat. by Jb. Varia. Diff. Long. Long. by Jb. Douise Dir. Diff. Lat. Dep. Lat. by D. R. Lat. by Jb. Varia. Diff. Long. Long. by Jb.		1					Car. foer with the west
1 4 5 3 7 6 4 6 7 6 7 8 8 9 8 10 8 10 8 11 8 12 9 10 8 10 8 10 8 10 8 10 8 10 8 10 8 10 8	II.						
Jone and mizen tops sour fore and mizen tops sour forest and mizen tops sour fore and mizen tops sour forest and mizen tops source fo	12	17		•			
Jone and mizen tops sour fore and mizen tops sour forest and mizen tops sour fore and mizen tops sour forest and mizen tops source fo			5		Curlo fo		treavy squalls close meeters
6 7 8 8 8 9 10 8 10 8 10 8 10 8 10 8 10 8 1		1 /			WWY		
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		7	6				
cloucly. 10 8	7	My					Emple strong breezes &
11 8 12 9 Course Div Diff. Lat. Dep. Lat. by D. R. Lat. by Db. Varia. Diff. Long. Long. by Ob.		0					
Course Dist. Lat. Dep. Lat. by D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Ob.	1 1	0					ceously.
CO D. Jan Jack Deprison of Contract Con	II	- 7	D	1 Diff Inc	1 Den I I	at by	D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Ob.
	100	n			1	Jac. Uy	

1. K. H.K. Courses. Winds L. W. Remarks Sep 15 th 1819 1 9 6 FEBE WWW Begins with strong 4a-
10 DORGINIANO
les & squally. It 2 I. M. look in fore &
muzen lop gal sails and log 8 5 lover structuressail. Ut 5 look fore top must structure sail & muzen. Ut le dons
4 8 5 6 7 9 Wym ble rested fore lopsail. Wym ble rested fore lopsail. Ult 9 lorte in main top gall sail & respect mains
10 8 5 11 8 5 12 Close refer J- J son 12 9 5 12 Winds. L. W. Remarks Pelo 16 th. 1819
8 5 Jely & W. St. Begins with strong
8 8 5 necessary. 10 8 5 Mby V
of the lops sail & set the
10

Hiram Putnam Master

	lo-	hina		beginson towards lealeretta
Н.				Remarks Sup 17 th 1819
1 2	56	fl by	E YNNW	Begins with motterale
3 4	my.	6		breezes & cloudy.
5	18	6		al 3 F. M. set L'arboard
7 8 9	by by			lover stridingsail.
10	7	5 8987	YNNW	at 4 J. M. set main lop
12	8 80	46		must studingsail
2 3	å			aus I.M. took in From
4 5	8	3		at 11 T. M. took in all
6 7	98	5	NM	strict g sails & main poval
9	8	6		Midde & latter parts squ
11	9	,		atty book in sail according
Course		Dist. Diff La	180 38.	D. R. VLat. by Ob. Varia. Diff. Long. Long. in Long. by Ju.
991	/4 /	H. K. Course		(0) /////////
1	50	SEBE	1/2 ENW	Commences with strong
3	000	5 5 5		breez es:
5 6	M. M	5	men	Ut y John set Lower & fore
7 8	6			topmast studingsail.
9 10	6	5 5		Midelle part squally.
11 12	7	5	mB8	Ut 4"30 a.M. took in all
2 3	7	5		struction ésails J. G. sails &
4 5	774		- 1	double reefed the sails
6 7	9			at ya.m. sent donn
9	99		ms m	mun poyal yard.
10	99			
Cour	8 se	Dist Diff. La		D. R. Lat. by b. Varia. Diff. Long. Long. in Long. by 1).
18	98	135 17	53 175	3853 27 3"42 48"51

	7.		Murce
	hina	from L	eyhorr rowards Calcretta
	H.K. Courses	Winds L. W.	Remarks Seps. 19 1h 1819
1 9 2 8 3 8 4 8 5 8 6 8 7 8	6 EYE/2 5 6 8	SIN	Begins with strong breezes and squally Ul 1 P.M. Look in the Til
9 0 10 0 11 0 1 2 0 1 0 3 8		E SYN	and handed the main said Middle part strong bree- zes & squally close reefed
4 5 6 7 8 9 10 11	565	Syrky	the fore & Mizen top sails. Ut 5 U./M. took in Mizen top sail Ut & reefed fore sail
12 8			
, h	Dist. Diff Lat.		R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
W8082	05 36	201	38:17 27 4:15 53:06
18	H.K. Courses.	Winds. L.w.	Remarks Sels 20 th 1819 - Bommences with strong
5 8	3		neavy squales of hail; wol
\$ 8 8 7 8 8 7 7 8 8 9 7 7 6 10 W	5		in the jone lop sail.
11 12 1			
3 6 4 27 5 24	5 5		At 3 A.M. set fore top sack At 5 A.M. set mizen lop
6 7 8 9 10 11	5 5 5		of I sail & sel M sail
12 6	5		
N8381	Dist. Diff. Lat.	Dep. Lat. by D	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 38"04 26 3"32 56"38

Heram Putnam Master

	K	hina	from L	beghow towards Coulcutta
Н.	K.	H.K. Courses	. Winds. L.W	. Remarks Sep 21 st 1814
1 2	my	ESE	WYW	Commences with moderne
3	6			breezes and cloudy.
5	5	5		at 2.30 P.M. set fore & M.
6 7	5	5	ym	
8 9	4	5		top gal sails.
10	5	5	400 /	Middle part moderate &
12	5		mst	cloudy.
2 3	7			at 2 a M. set the fore
4. 5	7			lop mast & lover studing
6 7	6	5 5		suits, Til & muzen.
8	7	5	WW	At 9 a.m. took in studen
9	9	5		gsails & mizen lop gal sail
11	9	5		
Course		154 "5		D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 38000 26 3015 5458 East
	K.	H. K. Courses		w. Remarks Sep 22 d 1819
1	9	5 888		
2 3	388	5		Squally took in lop gal sals
4 5		5		Is double need the top sails
6 7	8			Is hunded the main sail
8 9	8	8 5		& jil. At 3 J.M. close
10	8 8 8	5		reefed the fore & mozen
12	1	5 5		top sails.
2	8			Middle part fresh gales.
3 4	8			at ba. Mr. burned out all
5	6			reefs & sel top gal suils.
8	6			at 8 sent up M Ryand
9 10	56			& set I I Mast stridg said
11 12	7	5		
Cours		184 "3		D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Do. 37,156 22 3" 53 63"46 East
	044	104	1/04	

	A	The	na	from	Lughorn cownils Calculler
Hi.	K.	н.к.			1. w. Remarks Seps 2301 1819
1 2 3	8	5 3	Eky 9	NA	Begins with moderate
4 5 6 7	8 5 8	5			de 2 P.M. teck in fore
8 9 10	8 8	5		N.N.	
11 12 1 2	8				gal sail. Al 4"30 sel M. sail
3 4 5	9489				Look in top gal sails &
6 7 8 9	8 998	5			double reefed M top sail &
10 11 12	8	5		NW	took in the jil. Strong you
V80	1 2	Dist.	134	4	by D. R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob 37123 22 407 67133 East
H. 1 2	K. 8	н.к.	Courses.	Winds.	Ship jurder double reef
5 4 5 6	8 9	5 5			at 5 PM. wook in the me
7 8 9	99778	5		West	aru.
10 11 12	7	_			I. & M. toposails & hand
2 3 4	88998	5			M. sail. Wet a neef out
5 6 7 8	8868	556		Non	of fore & main top sails
9 10 11	999				Hear weather.
VU NU	9 D	203	4 45 1	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 80"04 22 3"52 71"45

Hiram PutnamMaster

China	from Leghorn towards Calcutte
H. K. H.K. Course	es. Winds. L.W. Remarks Sefa 25. th 1819
1 9 3 Ebyo 2 9 5 3 9 5 6 8 7 7 8 8 5 9 8 5 10 9 1 12 9 5 3 9 5 4 5 5 6 8 8 5 9 8 5 10 8 5	Commences with strong gales and clear weather. Out 4 P.M. close reefed fore tops sail. Out 11 J.M. took in the Mines of the Mines of the The discountry. Out to a meet out of the The Aurel of the The Strong of th
H. K. H.K. Chars 1 8 5 3 8 5 4 8 5 5 8 6 7 8 6 8 8 5 10 8 5 10 8 5 11 8 5 12 8 5 6 8 5 7 8 5 10 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 5 11 8 7 11 8 7 12 8 7 10 8 7	E. Winds. L. W. Remarks , Left 25 th 1819 C White Strong breezes & clear over ather & high following sea. Whit Us & M. kook in Il top yal sail & woulde reefed the top sails. Latter part pleasant let a reef from the top sails & set top yal sails.

1	1	2h	ina	i wn	Leghorn cowards Calcutta 1
ři.	1	,	Courses		L. W. Remarks Seps. 2 myth 1819
1 2 3	8 8	5 5	ENE		At 2 F.M. look in m
4 5 6 7	9899	6			At 4 took in mizen top
8 9 10 11	9998498	6			fore & main loss gal sails at 11 Im. freshving &
12 1 2 3 4	8 999 90	5 6 4	NEMBE	0,28	squally double reefer the
5 6 7 8	79999			わりわ	at 1 a.m. look in the ju
9 10 11 12	8878	5			5 close receied the lop sails. At let a reef from M. topsail
N5	5289	2/6		163	by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob 30"/0 81"49 & cast
1 × 5	K. 7		Welry?		V. Strong gales and heavy
5 6 7	8777	5 5 5 7		,	squalle
10	6777	555			al. 10 9. M. set main sail & spanker
12 1 2 3	7776	5			Meddle part more mo
4 5 6 7	77776			977r	reeks and sent up Royal yards.
8 9 10 11	4 4		VE by G	Y 188	Lutter part warm pleasant weather set staysails.
Course.			Diff. Lat. 1134	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 28"36 2"23 84"/2

Hiram Rulnam Master

	B	hi,	na	from	L	eghow towards Calcutta
Н.	K.	н.к.	Courses.	Winds.	L.W.	Remarks Sels 29 th. 1819
1 2 3 4 5 6 7 8	222223454	5 5	NE by E	PlyE		Begins with light airs and pleasant weather bent a new foresail. At b P. M. set staysails
10 11 12 1 2 3 4 5	56567777	5		NW		Middle and latter parts moderate breezes and pleus- unt.
6 7 8 9 10 11 12 Course	7776666	.5 6	Diff. Lat.	WY M		Vair. per wy y"17 West.
N5				97	a by D	27.17 7 1.50 86.2
н.	K.	н.к.	Courses.	Winds.	L. W.	Remarks Seps 30 No 1819
1 2 3 4 5 6 7 8	60660554	5 5 67 5	VNE NEYE	0 . 770		Commences with moder- ate breizes and pleasant All 10 F. M. took in shr- dingsails & staysails.
9 10 11 12 1 2	4 4 3 4 4 4 4	5	NE B	iv.n.	13 V	Middle and latter parts light-breezes & pleasant
3 4 5 6 7 8	34565544	5	N by E	£€		Var. per azm 5"45
10 11 12 Onurse	3	5 116	Diff. Lat. 2100	Dep. Lat	t. by D	D. R. Lat. by Ob. Varia. Dist. Long. Long. in Long. by 15

	Æ	hi	na	from	Ly	ighern cowards Calcutta
Hi.	К.					Remarks Oct 1 st 1819
1 2 3	4 5 4	5	NBE	NANY	m	Comences with moder-
5 6	3 3	5				ther.
7 8 9	343					
10 :1 12	3 3 2			93/N		Middle part light breeze
1 2 3	332	5				Ul 5.30 a. M. set fore wop
4 5 6	2		,			mast studingsvil.
7 8 9	2222	5 5				My am set top gal stradingsuits
10 11 12	211	5		East		Vintent muin & mozen to
Course.		Dist. 1	7 (1	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
1.	K.	H.K.	Courses.	Winds.	L.W.	Remarks O, ct. 2 W. 1819
1 2	0	5	Vey E	Eust		Begins with light airs
5 6	111	5 5 5	N Ey E	Vurial	6.	and variable.
7 8	1 2 3	5 5	2.	Will Car		Middle part moderate
10 11 12	2332				i i	breezes & obrusty.
1 2 3	4 4	5				
4 5 6	4 4 5			GS E		
7 8 9	566	56				Ends milh pleasant weather.
10 11 12	6	,				
Course.	-		Diff. Lat.		by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 22"34 5 10 87"C4

Herein Pritmam Master

China	from Leghorn towards Calcutta
H. K. H.K. Course	es. Winds. L.w. Remarks Och 3d 1819
1 . 7 . Nby 2 7 3 6 6 7 7 8 9 6 10 7 11 7 12 7 1 9 7 10 7 11 8 19 7 10 7 10 7 11 8 19 7 10 7 10 7 11 8 19 7 10 7 10 7 10 7 10 7 10 7 10 7 10 7	de breezes and passing ils uds. ate breezes and passing ils uds. at g PM. look in top gal stridingsails & main royal at 11 P. M. took fore royal & main lop gall slay sail Sanally at 5 a. Mr. took in main royal & flying jil var per wz m ue West.
Н. К. н.к. Слага	es. Words. E. W. Remarks Opt 4 the 1819 Begins with fresh had as and pleasant wear then. Ut to I. M. took in stindings aids & playsuits: Chieddle part strong brieges & playsuits. Ends with strong breezes & squally.

1	Rate	hin	201	fram	Po	ghorn cowards balcutter
H.						Remarks Och 5 th 1819
	8		Nhy E	,		Remarks Well 5 Mr 1814
2	8		Thy?	Ely y		Commences with stron
3 4	868			1		breezes and plear weather.
5	8	5				, justine justine in
7 8		5 5	W/28			ax m
9	8	5 73	CY /28		-	lu 3"30 P. M. sel main
10 11	a se se se se se se se					dopmust playsail.
12 1		65				
2	8	5				Var face any at 5.22 PMin 2
3 4	8	5				al g I Mn. pet M. topon
5	8	5				ast strictingsail
7 8	de de de de de de de de					
9	ا مر ا	5				aly & M squally took in
10	8					fore los mast Flud & sail &
12	9	5				U. J. G. pail.
UN5		9 8 1	3"17	Dep. Lat.	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
to any other to	September 100	L'ORDE TRANSPORTE	The same of the sa	THE PARTY OF THE P	Viciniani, iliani,	more, at appearance of the second sec
H. 	K					Remarks (Opt 10 th 1819
1 2	7	4	8/28	Ely &	3	Begins with strong h
3	7	5				add a soul la in
5 6	7	55				ades and pagsing clouds
7	7					14.
5	777777877	5				· Middle part squally
10	7					took in and maid sail
12	1				1	as precess ony.
1 2	7877	5		EBIS		
3 4		5				
5	アクフク					
6 7	7	5				Ends moderate & cla-
8 9	6				1	ridy.
10	cy					
12	7			ı		
Course.	1 Di				y D. R	Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
	11.		2"51			10-19 1 06 88-10

Heram Pulmam Master

,	61	nis	ra	from		ighorn towards Calculla
Н.	K.	н.к.	Courses.	Winds.	L.W.	Remarks Oct y th 1819
1 2	5	ن	8 by E	Eby V.		Begins with moderale
3 4	5	5				
5	5	5	North	,		breezes and cloudy
6 7	5			0000		Or a Man and
8 9	7	8	N/28	EXE		Var. foer wym at 4 PM 23'Eas Ut of PM look in fore &
10 11	5					Ut of I'M look in fore to
12 1	5					muin top gall, sails.
2	5	5				1
3 4	.5	5				
5	5	77				Ends moderate breezes
7	5		,	Chyd		& Apleasant weather
9	5	5	N.by E			./.
10	5	5				
Course		ist.			t. by D.	R. Lat. by Ob. Varia. Dif. Long Long. 11 Long. 14 Long. 15
N4	81	136	2"14	4		8.13 19 88.18
11	к.	н.к.	Courses.	Winds.	L.W.	Remarks Och 8 Uh 1819
1 2	5	5	N/28	Ebyet		Begins with moder-
3 4	5	5	North			ute and clear pleasant
5	5		Nby &	PAS	2	weather.
6 7	56	3		COY		TO CHOWN LO.
8 9	6	5				M 10 la la la companya de
10	6		NOY E			Middle part moderate
12	6		6			and cloudy.
2 3	5	5		1		ai y a. M. sel royals.
4	5	5		0		staysails & F I Must
5 6	55	5		Enst-		shværing sail.
8	5	5				
9	5					Ends moderate breeze
11	4	5				
Course			Diff. Lat.	1 1	t. by D	R. Lit. by Vb. Varia. Diff. Long. Long. in Long. by Dis.
C AS	4	00	2"04	/2		0.04 1.8 12 88.31

	6.	hi	na	from	Leghorn cowards Culcutte
fi.	К.	H.K.	Courses.		L. W. Remarks Och 4 th 1819
1 2	4	5	X by E	East	Commences with light
3 4	4	5			breezes and pleasant me
5 6	5	5			alher.
7 8	6			Ely y	
9 10	5	7		1	stridingsmils.
12	5	5			
2 3	556	55		ESE	Middle part moder-
4 5	6				ale and cloudy
6	5			SE	at y a m set Conver stre
8 9	6	6			avrasail
10	6				Einds hayy.
1.4	6)ist.	Diff Lat	Dep. Lat	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
Wr.	~ (1		2"10	1	5"3" 1 "17 88"48
1	6.	н.к.	Courses.	Winds.	L. W. Remarks Oct 10 Un. 1819
1 2	6.	5	NNE	S.E	These Inenty four hour
3 4	6	/			moderate bieezes & poleas a
5 6 7	5	6			all necessary sail set.
8	66	24			
10	66	7			
12 1	4 4 3 3	ĵ			
2 3	3				
4 5	3	5			
6 7	3 2	5			
8 9 10	32 323322	5	Nly?		
11 12	2		0		
Course	-	Dist.	1		by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
MI	74.1	20	1"54	30	2:02 16 30 89:18

Huam Prednam Master

Ch	timo from Legh	om towards Calcutta
	K. Courses. Winds. L.W. Remo	1
1 2 3 3 4 2 5 6 4 7 8 3 4 6 6 6 7 8 9 5 5 6 9 5 5 6 9	5 Nby & SPE B. 55 North Sbyth At- 35 Sh Sh Sh 56 Sh 56 Why & Nh 6000 Sh 6000 S	egins with light bree and pleasant meather 2 PM set landoard long with the Sound long wingsail & M. J. G stricts of J. M. jibed shift set board F J. mast & J. G. wingsails. In per warm 2"10 East 1 P. M. look in stricts in stricts is & staysails
10 6 11 6 12 6 12 6 14 14 15 7 7 6 7 7 8 8 8	5 Dif Lat. Dep. Lat. by D. R. 11150 4 N. Courses. Winds. L. w. Ren 5 North Wils J 5 S 6 Out	Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jo. "13 Smith "H' 89.22 E marks Oct 12 th 1819 inst part your breezes pleusant weather. 9 MM took in royals The phicy sails
12 8	3 3 3 5 My Prop 2 2 2 2 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hiddle part fresh breez efed mizen I. sail. Ends with strong bree s & Shazy weather.

Ship Chino

Energy Spiral State Dep Lat. by D. R. Lat. by Ob. Varia Dill. Long. Long. in Long. by Ob. 12 14 18 19 - 12 19 7 5 6 19 10 19 19 10 7 5 6 19 10 10 19 1		1	1.		
The sails about the strong brever of the strong of the strong brever of the strong of		10	hima	from L	ighorn cowards Calcutta
Deepers mith strong brings of the grant of grant of the grant of the grant of the grant of gra	Fi.	K.	-		Remarks Oct 13 Un 1819
breezes and squally. We 4 P. M. sork in J. G. sails abuble respect for its single neight main leps sails at b P. M. strong breezes be heavy squalls close ne feet lop sails handed M sail jit at 4 A. M. set respect M sail for the 10 B. T. S. and y A. M. strong breezes be heavy squalls close ne feet lop sails handed M sail jit at 4 A. M. set respect M sail for M. M. M. Courses. Winds. L. V. Hermite Oct 14 th 18 19 Ty S. M. M. Why S. Squadly sent down Roy at yands at yands at yands at yands for the 13 S. anker The Diff. Lint. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. It ong. in Long by Ob. which anker The Diff. Lint. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long by Ob. which anker The Diff. Lint. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long by Ob. which anker The Diff. Lint. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long by Ob. which and the Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long by Ob. which and the Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. which lat. and the Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. which lat. and the Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob.	11	4	1 10/07	a Wy	Basis
6 7 7 5 Nby W 1/5 & sails would people for to single medical for to single medical for to sails and the people for to sails and the people main tops sails at the P. M. strong breezes to sail to people to pe		9	3 Wby	m	
6 7 7 5 Nby W 1/5 & sails would people for to single medical for to single medical for to sails and the people for to sails and the people main tops sails at the P. M. strong breezes to sail to people to pe		8/10			
Sold of the Part of the political by the political of the first of the		my			Ut 4 P. M. work in J.G.
single neight main tops 1		8	5 ev by	WW 13 8	sails double recked fore &
al & J. Mr. strong breezes By heavy signalls close me Jex lops sails handed M Sail of pit At 4 a Mr set neefed M sail At 4 a Mr set neefed M sail At 4 a most form. It flail of fail of By 17 8 2 5 6 20 5 5 5 4 20 8 911 & ast H. K. H.R. Courses. Winds. L.v. Hannes Oct 14 th 18 19 They why why for a fail of the fit of At 4 a m. sarr a Bright Sarating to the fit of Sail of the fit of At 6 a m. hurned a neep anher The fit of fine tofo sails & sh anher The fit of fine tofo sails & sh anher The fit of fine tofo sails & sh anher The fit of fine tofo sails & sh anher The fit of fine tofo sails & sh anher	1	7			
at 6 J. Mr. shrong breezes By heavy signalls close me Jet top sails handed M Said of pit At 4 a M set neefed M sail At 4 a M set neefed M sail At 4 a M set neefed M sail At 17 8 2 5 4 20 8941 & Sail H. K. H.R. Courses. Winds. L.v. Mounts Oct 14 the 18 19 They what I for the fit of the fi	1	6	5		.0
Sheavy squalls close me fex lops sits handed M said & jil all 4 a Mr set reifed M said let a meef from it Pail Dy Oh Wry M 178 2 5 6 20 5 5 5 4 20 89 12 8 201 11. K. H.K. Courses. Winds. I. v. Hownks Oct 14 th 18 19 The Wry Why & Grands al yards al yards al yards al yards al yards al yards by the Grands of the Lofe. Sails & sprancher anker bit. In the loft and the log. Lat. by D. R. [Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. By the log. Sails & sprancher anker bit. In the loft and the log. Lat. by D. R. [Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. Work Dist. Diff. Lat.		7	5 5		
by heavy signally close me feet loops and handed M said in the loop of the loop of loops and handed M said in the loop late by D. R. Lat. by Ob. Varia Diff. Long. Long. In Long. by Ob. Loops of loop	1	7			al 6 J. Mr. strong breezes
Jest lop soils handed M Said & jet Outre Dist Diff Lat Dep Lat by D. R. Lat. by Ob. Varia Diff. Long. Long. to Long. by Ob. With the first of the Lat. Dep Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Jet as neef from It I Bail Diff. Long. by Ob. Long. to Jone. by Ob. Long. to Jone. by Ob. Soil & jet as neef from It I Bail Diff. Long. by Ob. Long. to Jone. by Ob. Long. to Long. by Ob. Soil & jet as neef from It long. Long. to Long. by Ob. Long. to Jone. by Ob. Soil & jet as neef from It long. by Ob. Soil & Jone. by Ob. Jet as neef from It long. by Ob. Long. to Long. by Ob. Jet as neef from It long. by Ob.	4	8			
Soil & it all 4 a Ma set reefed Il sail by all 4 a Ma set reefed Il sail and let a reef from it I Pail and let a reef from it I I Long. by Oh. Note I like the let a reef from it I I Long. by Oh. Soil & A. W. H. K. Courses. Winds. L. V. Revente Oct 14 th 18 19 — Garding sent dance Roy at yards. Out & A. M. part a Bright plants of the I A. P. Course a reef from the gard of the I A. P. Course of the I A. P. Course of the I A. P. Course of the I are the gard of the I of S. Sails & Sp. ancher The lift of the I of S. Sails & Sp. Course of the I of S. Sails & Sp. Course of the I of S. Sails & Sp. Course of the I of S. Sails & Sp. Course of the I of S. Sails & Sp. Course of I of S. Sail & Sp. Course of I of Sp. Cour	1	7			
Que y and set respect all said let a neef from all Fail by the late by D. R. Lat. by Ob. Varia Diff. Long. Lon		7			
let a seef from it I Pail of Course. Dist. Dist. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Dist. Long. Long. long. by Ob. Wy W 178 2"50 20 5"55 4 20 89"12 & ash. 11. K. H. K. Courses. Winds. L. v. Remarks Oct 14 th 1819 - 12. 7 5 Why W Why & Gardilly send down Roy al yands. 13. 7 5 Garding to the G. & E. 14. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9	6	7		**************************************
The standard of the Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. by Ob. W. 178 205 20 20 5055 4 20 89 412 Cast. H. K. H.K. Courses. Winds. L. v. Revinks Oct 14 the 18 19 - 2 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		0	1		all 4 a Mr set reefed Il sai
H. K. H.R. Courses. Winds. I. v. Revents Oct 14 th 1819 1 7 5 6 5 6 6 6 6 6 4 7 6 6 9 4 10 7 5 6 6 6 6 9 4 10 7 5 6 6 6 6 9 5 10 7 5 6 6 6 6 9 5 10 7 5 6 6 6 6 6 9 5 10 7 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 5 6 6 7 7 7 7	13	1 /2	5		let a reef from il I Pail Dy
H. K. H.K. Courses. Winds. I.v. Remarks Oct 14 th 1819 Ty 5 by Mary Squally sent down Roy at yands Go of the Go of	1				Lange in Louis, by On
Squally sent down Roy al yards. blanding to the J. & E. al b a. M. hurred a reep and of the tops. sails & sp. anker anker bist. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.		14	101200		Charles Charle
Squally sent down Roy al yards. blanding to the J. & E. al b a. M. hurred a reep and of the tops. sails & sp. anker anker bist. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	Н.	K.	H.K. Courses.	Winds. L.W.	Ranarks Oct 14 Uhr 1819
anker Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. NOW of 1000 Du 165 Lat.	11	7	+ by 4	2 Why	
10 7 12 7 1 2 2 7 1 2 2 7 3 7 5 6 7 6 7 5 8 7 5 8 7 5 8 7 5 8 7 7 7 5 8 7 7 7 5 8 7 7 7 5 8 7 7 7 5 8 7 7 7 5 8 7 7 7 7	4.5	my		2	squary sent down day
anker Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. NOW of 1000 Du 165 Lat.	81	7	5		al yards.
anker Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. NOW of 1000 Du 165 Lat.	16	6			al 5 a. Mr. sarv a Bring
anker Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. NOW of 1000 Du 165 Lat.	8	4			starroling to the 980
12 7 3 3 7 5 6 6 7 5 8 9 7 10 11 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	10		24		
10 6 1 1 6 5 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. White 16 6 Out 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21	1/2			
10 6 1 1 6 5 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. White Diff. Long. Long. in Long. by Ob.	1	7			out of the lofo. souls to sh
10 6 1 1 6 5 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. White Diff. Long. Long. in Long. by Ob.		7	5		anker
10 6 1 1 6 5 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. White Diff. Long. Long. in Long. by Ob.	2	6			
10 6 1 1 6 5 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. White Diff. Long. Long. in Long. by Ob.	6	6	5		
10 6 1 1 6 5 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. White Diff. Long. Long. in Long. by Ob.	21	7	5		
11 6 5 12 6 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	Ei .	M			
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	11	6	5		
White In the Out 16 to 19 D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.		6	5	Den II	
1 (88"53)		0.1			81 8 1 2008 0 000
				/ "	188"53

Hiram Putnam Master

China from Leghorn towards balcutter
H. K. H.K. Courses. Winds. L.w. Remarks Oct 15 th 1819
Begins with strong been so with strong so with so with so with so with lightning with some some some some some some some some
H. K. H.K. Courses. Winds. L.W. Remarks Opt 10 Mh 1819 1 77 2 17 3 2 17 4 2 77 3 3 7 5 66 7 3 3 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Onurse Dist , Diff. Lat. Dep. Lat. by D R Lit. by Db. Varia Diff. Ling. 13 Grag. 34 15 188 148 143 20 13"40 3 21 88"09

Thip China

ong onina
China from Leghorn cowards Calcutta
H. K. H.K. Courses. Winds L. W. Remarks Oct 17 lh 1819
2 7 6 Sby H John Commences with stro
1 7 6 breezes & passing clouds
Var per azm 3.56 East
Var per azm 3.56 East- 8 7 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10 7 5 I at 11 PM look in the
10 7 5 du 11 J M look in the spanker
2 7 5 au 8"30 am. let a rech
3 ~~
from fore & main tops 6 6 5 5 Very gym sails & set the jib.
3 6 Sound the Cables.
10 7
11 7 12 7 5
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by O
H. K. H.K. Courses. Winds. L.M. Remarks Oct 19 th 1819
16 Notes College
3 8 Shese Inventy four hour
1 7 7 5
8 7 5
A 7 Mine lessonies.
Mne lopo sails.
6 8 8
2 7 1 10 7 5 5 11 8 5 5 11 8 5 5
10 ry 5 11 8 5
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
X41 AV 181 2"16 118 18"37 4 2"4 85"33

Huam Putnam Master

China from	Leghorn towards Calculta
H. K. H.K. Courses. Winds	. L.W. Remarks Oct 19 lh 1819
	breezes & squally. Al 3 P. M. look in U. J. mast staysail. At 10 P. M. strick sound dings in 20 fathoms of volter: look in & mais sail as necessary: Al gust maid the land talse Point bearing NMM
Course P Dist. Diff. Lat. Dep. N242110 1"40 44	Lat. by D. R Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jo. 20014 4 47 8602 Cast S. L.W. Remarks Jan 21 st 1820 Ut b orlock the Harbour Master & Pilot came on board orraved ship & drafted beton Fort Williams
11 12 1 2 3 4 5 6 7 8 9 10 11	
mise Dist Diff. Lat. Dep.	Lat. by D R Lat. by Db. Varia. Diff. Long. Long. m Long. by Da.

China from Calculta cowards Salem
H. K. H.K. Courses. Winds L.W. Remarks Jan 26 Hi 1820
2 " Commences with lig
4 " WIW he breezes & pleasant.
6 Sby/E weidher.
8 " A al 3 P.M. the East sea
10 " reef. briog, bore W. G. W.
12 " distance one mile.
1 3 5 South NNE at 8 F. M. discharged
the Pilot had & fathon
5 5
6 5 7 4 5 of water.
8 4 'ENE at 9 P.M. pet studin
10 3 sails & stoon suits
as midright the light she
Course. Dist. Diff Lat. Dep. Lat. by D. R. Lat. by Ob. Variate Diff. Long. Long. by Ob
9898 44 1 44 20.14 38 16 88.00 00
H. K. H.K. Courses. Winds. L.W. Remarks Jan 27 1820
1 2 South & the Begins with light
3 2 5 Your Property
breezes and pleasant of 3 of
of 3 meather. Watch employ
8 3 5. led in unberiding cubie
10 2 3 last light
3 2 5 EVE 200 00 précafant
5 3
6 2 5 Employed in geling
in & remstocking the
16 3 Rankon .
11 3 5
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. SUM 62 62 5 100 10 10 3 23 Converse.
34 M 62 62 5 1912 1912 3,33 87,50 Long

Hiram Putnam Master

	t	h	ina	from	K	Calcutta towards Salem
Н.	К.	н.к.	Courses.	Winds.	L.W.	Remarks Som 28th 1820
1 2 3	4		f2E	NNE	3	These inventy four hours light breezes and
4 5 6 7	3	5				clear peasant meather
8 9 10 11	32211	5				Var prer wym 3"33 Eaft
12 1 2 3	212	5				
4 5 6 7	23211	5				Ul 1130 U.M. look in the
8- 9 10	222	J	1	4 6		start and study sails
11 12 Course		ist.	Diff Lat.	Elige La		D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
82	8 3	58	UV.L	× 28 2	18	14 18.28 4 2 87.52
fl.		н.к.	Courses.	Winds.	L.W	Remarks Jan 29 th 1820
1 2 3 4	2334	4	F2E	NNE	3	Light breezes and friess
5 6 7 8	44 5 5	3		NE.		set.
9 10 11	5 5 4	5				Et insider gåd moderal
12 1 2 3	4 4 4	5		EBJ	1	arred clier
4. 5 6	4555	8				Latter part sleady bree
7 8 9 10	5555	6		East		zes and pleasant.
11 12 20mse	5	Disc :	Diff. Lat.	Dep. La	it. by 1	D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Ob.
\$2.	1/	///	111	1	-	37 1622 48 4 87:56

	. E	on	ina	from	Calculla wowards Falem
Ĥ.	К.	H.K.	Courses	Winds	L. W. Remarks Tan 30 lin 1820
1 2 3 4 5 6 7 8 9 10 11 12	666667777777777777777777777777777777777	4 ~ 3 0 4 5	J12 E	East Eby: V	breezes and pleasunt ne aliver all dring vails set Al 4 J.M. lock in Mize
2 3 4 5 6 7 8 9 10	766666666666666666666666666666666666666	73 5535 735		E. Y. E	Modelie and latter franks jern breves and treensas
WE SHOW THE W	1	· AR STROMEN	139	8 DEAKSTON & SUBMERS OF	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 13"32 3 8 88", 44
3 4 5 6	6		9/2 E	Winds.	L.W. Remarks I from 31 st 1820 (1) con sith fresh br- es is and from sunt wear ler all recepsory sail set
7 8 9 10 11 12 1	イアでファアで6666アアアファアアファファファ	5555			Middle and latter par- ts fresh breezes & pleasa
3 4 5 6 7 8	ノフファファフ	5			is fresh breezes & pleasas
10 11 12	FD	4 4	Diff. Lat. 1		by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. O"46 3 8 8"//

Hiram Prednam Master.

China from Calcutta towards Palem	1
H. K. H.K. Courses. Winds. L.W. Remarks	
Thes twenty four how- s commences with fresh breezes and cloudy.	
eves & clively los	
sky sails flying jil & ll. sky sails flying jil & ll. sky sails At y & M. see	11
11 12 Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	
838 168 167 4 7"39 8"83 3 10 88-22 ov,ou	
H. K. H.K. Courses. Winds. L.W. Remarks	
3 4 5 5 9/3 E ENE Bagins with fresh breezes & sanally appearant ces all drawing sails sel. Out 8 A. M. sanally took in stricting sails, stay so in stricting sails, stay so in stricting sails, stay so	
top gal sails. Midnight sharps his htming single reefed the T. sails.	ne
single reefed top sails. Dist Dist Dist Dist Lat. Dep. Lat. by D. R. Lat. by D. Varia. Diff. Long. Long. in Long. Dy Do.	
47 151 150 18 W5.29 48 18 884	

	t	The	na	from	Calcuttie cowards Sulem
н.	К.	н.к.	Courses.	Winds	L. W. Remarks Feb 3 d 1820
1 2 3 4	5 4 2	5. 5. 5	South	East	Begins nich breezes &
5 6 7 8	2 5 3 2	5		NIXE	ett 1 3. M. trinded the
9 10 11 12	21111	5 5		Var	stranken il y look in t.
1 2 3 4	4 34	3		ENE	at mi in M. J. Grail
5 6 7 8	3 3 4 4			NE	Mudette fruit short le
9 10 11 12	4465	5			igthe soils of 3"10 8 ast
Course	, ,	ist.	Diff. Lat.	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
829	W &	54	83	3	428 8 Bast 3 88 37 East
н.	К.	н.к.	Courses.	Winds.	L.W. Remarks Jel 4 th 1820
1 2	5		South	N.E.	Commences with m
3 4 5	5 5			ENE	dente liceres und cloud
6 7 8	5 4 3			East.	al b F. M. squally to
10 11 12	111			888	In alt light sails
1 2 3 4	1112		Phy	- F. P. M	aires avid plansant
5 6 7	111		Mis	000	Catter part squally with rain all sail
8 9 10 11	3.		South Jy) Vor	set rain all sail
12 Course.	2	ist.	Diff. Lat. 1	Den. Lat	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
300	W.	611	60	8 Eat.	3"52 N 28 8 88 29

Hiram Putnam Master

t	Thina from Calcutta towards Lakem
Н. К.	H.K. Courses. Winds. L.W. Remarks Jels 5 M 1820
1 3 2 4 3 5 4 6 5 4	5 Forth West Commences with light 5 Forth mis breezes and cloudy were then.
7 4 8 3 9 2 10 3 11 3 12 4	Ot 3 P.M. took in the royals, slay sails & flying
1 3 4 5 5 4 6 4	5 sails and flying jil. Middle part cloydy.
7 5 8 4 9 4 10 11 11 4 12 6	5 5 - Mars of at 6 a. Mr. set all stride 5 5 - mgsvils. 5 Ends pleasant.
Course P2 W	71 71 3 2 41 4 28 pst 3 88 26 East
H. K.	H. K. Courses. Winds. L. W. Remarks Sel 6 Hr 1820
1 4 2 3 3 4 4 3	5 South W. Beyons with light for
4 5 6 7 8 9	3 1 1 set.
9 2 10 2 11 2 1 2 2 3 4 5 6 7	5 Militaties part moderale
2 2 2 2 2 2 5	treer is & pleasant.
7 / 8 / 9 /	Satter part pleasant
10 / 11 / 12 / Course	Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 111 140 2 153 2 2 2 88 2 4 6 2 6 6 6 6 6 6 6 6
1277	144 40 2 153 X 2 400 2 0 8"24 6000

1	Bi	Pin		frage.	
H.	1	н.к.		from	
		H.K.	-	b	L. W. Remarks Febry Wh 1820
1 2 3 4 5 6 7 8 9	43 43 22119	5 3 3 5 5	South SSW		breezes and cloudy all necessary sail set.
10 11 12 1 2 3 4 5	222222222				ate and pleasant.
6 7 8 9	2222		SM	SSE	Datter part squally with rain look & m-
11 12	3//	5	South	2	id sail as necessary.
P18	me)ist. 1/2		Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 28 13 88.11 East-
H.	к.	н.к.	Courses.	Winds.	
1 2 3 4 5	2323	5	Sp. J.	flv 15	Begins with squally unselled weather allen
6 7 8 9	33344	3 5	SPISE		ded with heavy rain.
10 11 12 1 2	3311	3	South SASE	7	Is reefed the top sails Middle part light as
3 4 5 6 7	2 3 11	5	S EMS		It to maid all necess
8 9 10 11	44432	5 55	188		Ends pleasant
Course.	2 1 D	ist.	Diff. Lat. L	Dep. Lat. b	y D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
23	16		57 15		y D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 14eN 28 24 88.36 East

Kiram Pulnam Muster

China from Calculta towards Salem
H. K. H.K. Courses. Winds. L.w. Remarks Fel 9 120 1820
1 4 5 SE ISM 2° Begins with moderate
3 5 SEBESBN breezes and passing stoc
6 4 5 all necessary soul ser
7 5 4 5 9 8/28 At 5 J. M. Work in the
9 4 5 8 8/28 stay sails.
11 4 5 98/38 OMMAN (11 101)
12 4 5 9BE THAT MIDDLE PULL NOOK IN
ine fore and mazer ruger
4 5 gat sail.
5 5 6 538/28 Ends squally and sm
all rain
9 3. 5 4/3 8
10 4 3
10 3
Surse Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob.
H. K. H.K. Courses. Winds. L.w. Remarks Teo 10 th 1820
TO DO ON O
2 4 my solyins mar mula
1 6 9138 breezes and passing clou
5 5 5 9 9/28 ds, all necessary sail se
7 3 5 0
11 11 - 10000
12 4 5 West ale breezes and squall
1 5 5 look and maid sail
3 5 as necessary
6 4 Spatter part pleasant
8 5 all of set playsails or
9 3 5
11 3 5 9/34
Course Det Diff. Lat. Dep. Lat. by D. R. Lat. by b. Varia. Diff. Long. Long. in Long. by Jb.
SIN88 86 17 238 2 17 843284"4

1		Fo	Di		/_		a Parith		7	00	11
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	2	5	5	JJ1	N'M	200	Bear	ins	mit	h n	roder_
	3 4	4	17	2			ate &		,		00 0000
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	8	5	5	9131			the,	royeil	s fr	ying	Til
	10	5		SIBM	m		slay ,	sails.			
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1	3 4	5					lout	•	~ ~ ~ ~	Je je g	Para
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	7 8	322	5	997	F				,		And the state of t
	9	4	5	4131						g br	eezes
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1	12 Course	5):	8131	m	11-2-2-2-1					And Annual Control
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	2	4 5	5	SISM	300	9	These	es tro	entre	lour	hou
	3 4	5		4138	n va	D	rs m	prolen.	2/01	breeze	
	5	555544						ig ch		oreeze	o wrece
	7	4		8			Bugoon	y ru	ruces.		
	8	4	5				- 04		1 _	0	
	10	4	5	PB N			at y	'a.M	l. se	t the	skyse
	12	4	5	(00 n			el.				
	2 3	3)	1000							
	4	3	5	5/10/							II. (C. A. Calendario de Calen
	5	333321		99//							The control of the co
	7 8	2	5								
	9 10	2		4							- And the state of
	11	2	3	SM:							e de la constanta de la consta
	12 ourse.	2	ist.	Diff. Lat.	Dep. Lat.	by D.	R. Lat. by Ob.	Varia. I	iff. Long.	I one in LT	
4	21	11	8	88	3	, 25,	5.58		3	Long. in 1	East
Photos	-									0019	y case

Heiram Rutnamollaster

Policies & bole How to and Policies
H. K. H.K. Courses. Winds. L.W. Remarks Jel 13 th 1820
1 3 S2 E SIMBYND Commences with light
3 3 5 9BE SM breezes and pleasant we
5 3 ather, all drawing sails
7 3 998
1 1 10 10 10 10 10 10 10 10 10 10 10 10
10 2 Ty 5/38 SIMBY Var per wym 1"27 East
11 2 5 9 mgm at 100k in the star
2 3 5 44m sails and sky sail.
1 1 3 0 Middle parts light wir
6 1 5 000000
8, 5 MB all 5 al. M. sel slay sails
10 1 8138 . I sky sails.
11 /
Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob. Po 117 5 650 28 5 882 60st
H. K. H.K. Courses. Winds. L. w. Remarks Jely 14 W 1820
This day commences
3 1/5 West with very hot weather
ond calm. more of the second calm.
10 2/5 Modelle part light airs
11 / 85 pleasant.
1 1 5
8 M. I Mast, Lower &
5 2 S. M. J. Mash, Lower or
1 9 Stridg. sails Ray se
8. M. I Mast; Lower & I g Studg. sails Ray soo ls. 9 9 5 6 7 8 9 5 6 6 7 8 9 9 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
12 2 5
1 Dist Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Jo. Variate Dist. Dong. Song. Lat. by D. R. Lat. by Jo. Variate Dist. Dong. Song. Lat. by D. R. Lat. by Jo. Variate Dist. Dist. Dist. Dong. Song. Lat. by D. R. Lat. by Jo. Variate Dist. Dist. Dist. Dist. Dong. Dong. Dist. Di

	11	lh	ina.	Jom Culcrula comais Falem
н.	K.	H.K.	Courses.	Wine's L.W. Remarks Feb 15 th 1820
1 2 3 4 5	3 3 3	5	SSM	bommences with light air and precusant weather.
6 7 8 9 10	333321	5 5 5 5 5 5 5 5 5		er striding sail. At 8 FM. squally took
12 1 2 3 4 5	1111	5	SM3	Gast in the studing sails M. for royal & J. G. sail. Galow Ut 11 J. M. took in the
6 7 8 9	12222	5		SERE I. & Main I G sails. Middle pars light air SEBE At & a.M. maid all sail.
11 12 Course \$\mathcal{P}22	3	5 Xist. 5 4	Diff. Lat.	Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 20 8"418 - 20 8"45 East
H. 1	2	н.к. 5	Courses.	Winds. L.W. Remarks Jel 10 th 1820
2 3 4 5 6	24455	5		breezes, cloudy weather all necessary sail set.
7 8 9 10 11	55 443	4 5 5 5		Got down the M. J. G. yard and shifed the saw
12 1 2 3 4	322134	5 5		Midnight squally took in
5 6 7 8 9	41///	5		Sast Latter part pleasant all SE sail set by the wind.
10 11 12 Course.	-		Diff. Lat.	Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
122	n l	2	921	25 9:38 26 8719

Kiram Pritnam Master

JUNION STUNION STUBBLE	
China from Calcutta towards Salem	
H. K. H.K. Courses. Winds. L.W. Remarks Seling the 1820	
1 2 4 5 STYSE Begins with light bree	
3 5 5 SMB JEBB zes and Halsing clouds.	
1 5 3 1 17 1/6 14 1 (1)	- 10
6 5 Jange At y look in the F & Ma	,
3 5 5 com so Royals & flying jil & slagsa	ils
10 3 5	
12 5 Chiddle part moderate	
2 4 6 & cloudy	
4 4 5 ISE at 3 a.m. set F. J.M. sta	
6 34 5 person ding & at 5 T.G. sludg said	
7 9 7 11 18 19 19 19 19 19 19 19 19 19 19 19 19 19	
9 4 5	P
sails of J. g. sails	
Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	
833×2107 85 55 11:07 17 50 86:23 Base	
H. K. H.K. Courses. Winds. L. W. Remarks Jeb. 18 th 1820	
1 / SW138 East Personal mithe links	
3 commences process pagnet	
4 1 5 9m eurs & calm 5 5 5 5 5 m	
6 6 5 With 190 J. W. took in	
8 by 4 Syrby SE the Royals and flying job	
10 m 3 cape at 6 took in the J.G.	
12 6 5 sails and reefed the I sails	
2 6 36 Chidale part fresh breeze	1
3 7 5 & cloudy	
6 6 6 at 4 a.m. turned the rest	
8 7 ESE from the I sails, set lop	
9 6 5 1 0 10 C 20 10 10 10 10 10 10 10 10 10 10 10 10 10	. 9
10 6 5 98 gat sails or royals or suitely sa	US
Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob.	
8427 136 107 91 12"49 1% 93 84"50 8ast	

hip China China Colcretto congards Solem from Jel 19th 1820 K. H.K. Courses. Winds L. W. Remarks FE. Begins with strong trades and passing clouds at 5 P.M. took in top gut studing sails. at of Boll. squally work in sail, & at 11 moviel all sail 6 Middle part strong Var per azm 2.02 m 5 Latter Jour strong breezes | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob P442166 119 V15 158 82 52 East Remarks Jel 20th 1820 K. H.K. Courses. | Winds. L. W. 7 STUBILIERS Begins with strong to des and good weather all drawing sail set. Middle part strong bree 10 11 zes & light squalls, took 12 in I G study sails. Ends with strong bred zes and squally appearing Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. 547 146 103 16:37 f 20 2 2 80 24 Easi

Kiram Putnam Master

H. K. H.K. Courses. Winds. L.W. Remarks Jel 2/ st /820 1 8
breezes and squally apple of the stay and squally apple of the stay sail. At 2 P. M. look in the fore Royal & M. lops gut stay sail. At 3 P. M. look in the fore Royal & M. lops gut stay sail. At 3 B. M. J. G. Sails. At 8 P. M. Study sail the M. Royal & J. S. M. J. G. Sails. At 8 P. M. J. G. Sails. At 8 P. M. Study set Lower & J. J. M. Study &
10 8 5 11 8 4 2 8 4 2 8 4 5 66 8 7 8 8 9 8 10 8 8 9 8 10 8 8 9 8 10 8 8 11 8 12 8 9 8 10 8 11 8 12 8 9 8 10 8 11 8 12 8 9 8 10 8 11 8 12 8 9 8 10 8 11 8 12 8 10 10 10 10 10 10 10 10 10 10 10 10 10

10 \$ \$ 5		Ch	una	from Ge	alcutta corginals Salem
and squally. At healf past meridian look in the 5 toyal and old J. G. sail. At 5 took in the 5. Toyal and old J. G. sail. At 5 took in the 5. Toyal and old J. J. G. sail. At 5 took in the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. G. sail. At 2 30 A. M. set the 5. J. S. M. J. G. sail. At 2 30 A. M. set the 5. J. S. M. J. G. sail. At 2 30 A. M. set the 5. J. S. M. J. G. sail. At 2 30 A. M. set the 5. J. S. M. J. G. sail. At 2 30 A. M. set the 5. J. S. M. J. G. sail. At 2 30 A. M. set the 5. J. S. M. J. G. sail. At 3 J. S. S. S. S. S. S. S. S. M. S. J. S. S. M. S. J. S.	н.	К. н.	K. Courses.	Winds L.	.w. Remarks Ill 23 dt. 1820
at half past meridian look in the I royal and all I g sail. At 5 took in the I royal and all I g sail. At 5 took in the I st. At 5 took in the I s. All slide & latter parts strong breezes and squal of the I g sail. At 5 took in the I s. All slide & latter parts strong breezes and squal of the I g sail. All slide & latter parts strong breezes and squal of the I g sail. At 8 to 4 to 5 took in the I so 5 to 6 t	3 4	My C	WBS,	EGE	
at 5 touch in the F.S. all slieds sail & J. J. G. sail blist Diff. Lat. Dep. [Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob. Long. in Long. by Ob. Long. in Long. by Ob. Long. in Long. by Ob. Varia Diff. Long. Long. in Long. by Ob. Varia Diff. Long. Long. in Long. by Ob. Long. in Long. by Ob.	6 7 8	8788			
A 5 8 5 6 6 7 7 8 5 8 5 8 5 8 8 5 8 8 8 8 5 8 8 8 8	11 12 1		5		at 5 took in the F.J.
Strong breezes and squally specific to the strong breezes and squally square. Dist. Dist. Dist. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Dist. Long. Long. in Long. by Ob Ob National Dist. Long. Long. in Long. by Ob Ob National Dist. Long. Long. in Long. by Ob Ob National Dist. Long. Long. in Long. by Ob Ob National Dist. Long. Long. in Long. by Ob. National Dist. Long. Long. in Long. by Ob. National Dist. Long. Long. in Long. by Ob. Long. Long. in Long. by Ob. Long. Long. Long. Long. in Long. by Ob. Long. Long.	3 4 5 6				
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob Vol. No. No.	8 9 10	7 3	5		strong breezes and squak
H. K. H.K. Courses. Winds. L.N. Remarks Jeb 24 th 1820. 1 78 PBJ/2 East Slong breezes continues, ship render single reefe lop sails. 1 8 5 6 8	12	74/	7		
H. K. H.R. Courses. Winds. L.W. Remarks Teb 24 th 1820. 1 78 185/2 Cast Slong breezes continues, ship juries single reefe lop sails. 1 5 5 6 8 7 8 5 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8					
Stong breezes continues, ship under single reefe lop sails. Watch employed in maching points to Middle part strong breezes and cloudy. At 2"30 A M. J. C. sails. Var per azm b"58 Most Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob.	н.	К. н.:	K. Courses.	Winds. L.	
ship juncter single reefe lop sails. Watch employed in m aching points & Middle part strong breezes and cloudy. At 2"30 A. M. Set the F S. M. J. G. sails. Var per azm b"58 Mest Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	1 2 3	78		Cast	
acking points of Middle part strong breezes and cloudy. The 2"30 Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. in Long. by Ob.	4 5	7/8/0	5		
Middle part strong breezes and cloudy. 4 2 5 6 7 8 7 8 9 10 11 12 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Cb.	7 8 9	7/2	5		
2 2 30 Cl. M. Set the F Solution of the Set	11	177			Middle part strong
S.M. J. C. socils. Var per azm 6.58 Most Dist. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	3 4	777	5		
10 7 11 2 5 Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	6 7	787			Is M. J. G. sails.
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	9 10	47		,	. John per azir on's 8 West
		7			
	77,	01			y D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 22.00 White 172 69.14 Heast

Hiram Putnam Master

Whine from Celevita towards Televin
H. K. H.K. Courses. Winds. L.W. Remarks Jel 25 1h 1820
Begins with fresh breeze paising clouds and hazy we ather, ship render single re
Red top; sails. Red top; sails. Red top; sails. Chidole part strong breeze heavy sea.
set fore & main royals. at 7 3 West of Suil Var 9:06 Mest.
11 6 5 OK. /3. heav of the sew 1 pt. H. Course Dist. Diff Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. by Jo. Syph 194 61. 9 185 231.07 92 201 65.53 East. H. K. H. K. Courses. Winds. L. W. Remarks Jel 24 th 1820
Begins with strong incides and pleasant we ather & heavy sea; all necessary sail set.
Middle part moder 1 5 5 3 5
Evolution of the sea one mile profit the sea one
12 7

China from Calcultat cownids Falen	
i. K. H.K. Courses. Winds L. W. Remarks Jeb 27 th 1820	
1 7 3 West 8139 Commences with stead	-
4 7 5 dy breezes and pleas an	1
following sea for which	- 101
of allow one mile foer.	1
12 1 5 Sast At 1 P.M. set Larboard et J. M. stricting sail.	12
4 7 6 at took in the	
6 7 8 4 . I. J. G. sail. at g. g. M. set the sta	2
10 76 5 Roard M Fell studge ai	. 1
Course Dist. Diff Lat. Dep. Lat. by D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Ob	Total September 1
H. K. H.K. Courses. Winds. L. W. Renarks Jel 28 lh 1820	i
	Sandal division and and
4 6 5 s noderate breezes & pfearant mante breezes &	
long following sea for	The state of the s
1 6 2 6 3 5 5	
11 7 1 1 1 2 1 1 1 2 1 3 1 5 4 5 5 7 6 5 5 5 6 5 7	
7 5 8 5	
9 4 5 10 4 5 11 4 5 12 4 5	
Ourse. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	
84 9 149 145 146th 24"42 11 70 160 56"40 Cast	1

Kiram Prilnam Master

H. K. R.K. Courses. Winds. L.W. Remarks Tel 29 th 1820 1 5 W20 6/30 Commences with moder at breezes and passing colored by the second of passing colored by the second of passing colored by the second of passing second line of the second of the second by the second of the s		Chin	vel from	Colorittà towards Sulem
2 5 5 6 4 6 4 5 6 4 6 6 4 5 6 6 6 4 5 6 6 6 6	Н.	К. н.к. С	ourses. Winds.	L.W. Remarks Ist 29 th 1820
11 4 12 4 15 3 4 5 4 4 3 5 6 4 4 5 6 4 4 5 6 4 4 5 6 4 4 5 6 4 4 5 7 5 6 5 7 7 5 6 5 5 6 6 6 6 5 5 6 6 6 6	2 3 4 5 6 7 8 9	5 5 5 4 4 4 4 4 4 4 4 4 4	Valle BU	site breezes and passing cl
and Dower stieds sail and Long. by Ob. A strong in Long. by Ob. A boar 1st 1820 breezes and passing clouds as and heavy and long sea for which I allow fifteen miles. A diddle Is latter foots strong breezes I basing clouds.	11 12 1 2 3 4 5	4 4 4 5 4 3 4 3		at 10 P.M. set Lav. M. J. G.
H. K. H.K. Courses. Winds. L.W. Remarks. Mour 1st 1820 1 7 West & B & Begins with strong breezes and passing cloud do and heavy and long sea, for which I allow fifteen miles. 9 0 4 10 6 4 11 6 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	8 9 10 11 12	5 5 6 5	iff. Lat. Dep. La	and Lorver slied sail and Long. Varia. Diff. Long. Long. in Long. by Ob.
Thest & Begins with strong breezes and passing cloud as and heavy and long sea, for which I allow fifteen miles. Chidale & latter parts strong breezes & passing clouds.	1		/ / /	Magnitution
12 6 Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Db. Course Diff. Long. Diff. Long	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	77671679999966655555555	1/2 d	breezes and passing cloud do and heavy and long sea, for which I allow fifteen miles. Chidale & latter foorts strong breezes & passing clouds.

This China

	The porture
	om Calcutta cowards Lulem
	Inds L.W. Remarks Mai 2 d 1820
2 6 5 3 6 5 4 6 5	Begins with strong bee
6 6 3 7 6 3 West 8	ast a long fottoving sew for I allow it set us fifteen
9 6 5 10 6 5 WBN 1 6 7 12 6 3 WBN	EBE Al & P.M. set the Lan. I.J.
1 6 5	ast C. strict 9 suit.
5 7 7 7 7	Ends with strong breez
8 6 7 9 6 5 10 6 5	and chuily.
Course. Dist. Diff Lat. Dep.	
873 W 171 48 162	Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob 2090 180 48.26 East
H. K. H.K. Courses. W	
2 6 6 7 13 18	BY Commenes with strong
3 6 5	breezes and passing clouds
5 6 5 West	and a following sea for
7 6 3	D' D' F DD C'D SEW TOU
4 5 5- may	which I allow fiften miles
10 7 3	dues West.
12 7	Var 19° West per arm
1 6 5 2 6 3 Cas	at.
3 0	
5 6 5	0
6 7 7	Ends with pleasant
8 7 5	breezes and macherel shy
10 7 4	
11 7 5	all necessary sail set.
Course. Dist. Diff. Lat. Dep.	Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
8619 171 83 150	1 1 2
	(Carrier)

Minum Pulnam Masler

China from Calcutta towards Palem
H. K. H.K. Courses. Winds. L.w. Remarks Men. 1820
Begins with strong bree ges and passing clouds and a highly following sea for which I allow fifteen miles west per compass. Out 4 a. M. set Loner and fore top mast shudg, sail. Of a lo a. M. set the Following with place top mast shudg, sail. Of a lo a. M. set the Following sea for west per compass. Of a lo a. M. set the Following sea for west per compass. Of a lo a. M. set the Following sea for west per compass. Of a lo a. M. set the Following sea for weather. Onds fine breezes & pleases weather.
100000000000000000000000000000000000000
H. K. H.K. Courses. Winds. L.W. Remarks New 1820 1 7/8 7 W. Bov. E. Bov. Commences with fresh breezes and pleasant weather weather the strong of the strong breezes and cloudy. 1 8 9 5 10 8 7 11 8 8 5 12 18 8 5 11 8 8 8 5 11 8 8 8 5 11 8 8 8 5 11 8 8 8 5 11 8 8 8 5 11 8 8 8 8
S 8 10 y 5 1 N.B. There appears to be a current from the low of Chan a current from the low of Chan of the long in Line by D. R. Lit. by Db. Varia. Dif. Ling. Long. in Line by D. R. Lit. by Db. Varia. Dif. Ling. Long. in Line by D. S. Sull Sull Sull Sull Sull Sull Sull Su

China from Calculla cowards Selem					
	0				
	Remarks Mar to the 1820 This under double reefect top sails— a heavy sea— At 2 P. U. took the F. Ash. J. G. sails. At 3 P.M. close reefect the J. pails, handed the M. sail and jit. At 4"30 look in the J. Hill top-sails and sent down the J. J. U. top gal yards. At 11 set the M. sail— At 2 ams set the Jell topsails At 11 main sail:				
Course. Dist. Diff Lat. Dep. Lat. by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob				
H. K. H.K. Courses. Winds. L.W.	Remarks Many Va 189 15				
1 5 ThBN Jhrs S	1020				
4 35 6 6 5 West 95900	- zes and light squalls of na- in, all necessary sail set.				
8 4 5 10 4 3 WBN 98	Middle part light airs				
12 3 1 2 2 2 3 0	and squally.				
4 2 5 6 Calm					
8 1/ 9 1/ 10 2 Calm	Latter part light airs				
12 3 159					
Course. Dist. Diff. Lat. Dep. Lat. by D.	1 24 10 2 2				
101/109/11/100/	30/2 259 77 35"58 East				

Heram Pulnam Master

China from Calcutta towards Sakens	
H. K. H.K. Courses. Winds. L.W. Remarks - May 8 th 1820	
2 4 4 Begins with fresh bree-	
3 4 5 Sylly Williams and passing clouds.	
	0
6 4 5 F.S.M 5 at 30 J. M. Rook in il royal	O.
8 3 6 West J. 13.W Ut 3 J. Job. work in J g sails.	
10 3 5 act 5"30 close reefect the J. said	
11 3 5 handed the M. and jil; dow	-
1 4 le salant the stampter sent	
3 4 3 down royal yards and then	,
6 3 set-reefed M. sail	0
8 3 5 at 1 at 1 at 20 a. M. let a reef from	Toour
2 3 al at 5"30 set M sail fil X. M I Pa	ril
11 2	
Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	
Pry 5 \$ 55 15 54 30.40 25 \$ 63 34.55 East	
H. K. H.K. Courses. Winds. L. W. Remarks Way 9 th 1820	
1 / WBS SB M Commences with light	
2 - Galmi Vommences pour light	
3 - and calms with a he-	
5 1 5 SIM any swell from the Westerna	nil
1 2 5 Out of Tell sent rep the	
10 3 . U. Royal yard.	
11 3 1 1000 M. Oroque /g. to const	
12 3 3 998 Middle part light arm	
2 4 3 3 and pleasant.	
4 4 all al. m. set the fore	
6 3 5 lop-mast-sluding sail.	
8 4 5 au 5 au 4 sent rip the F. Folk	
10 3 CSE Royal yeirels & set Leower ster	cela
	-)
Dourse Dest Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.	
Pristro4 17 9 62% 31.02 26 72 miles 33.43 East	1
Landing to the state of the sta	,

Kok		Calcutta cowards Salem
		1. w. Remarks Man 19 th: 182.0
1 4 3	W.B. V. 898	
3 4 10		Beyins with moderate
4 4 5 5 4 5		breezes and pleasant mea-
6 4 5		ther. at 1 I.M. set the
8 5 6		Leurbourd J. J. M. shugg-sa
10 6		Is look in the playseils.
1 7	Coest	at J.P.M. look in the I.
12 7 1 7 2 7 3 8 3		and M. J. G. sails.
4 / 7/8		at 8"30 P.M. took in the
5 8 6 8 7 8 8 8		M. T.M. sheeff, sail.
8 8 9 7 8	E.N.G.	at I a.M. took in the Le
10 7 8	Hoc. L	Li stricté sail M. J. G. stricté so
12 y 8	Diff Lat. Dep. Lat.	& Spanker set. Van. a. 26. H
174 168	C 1.0-10.10	rv 12 miles / West pr Jonn 30"34 East
Н. К. н.к.	1	L. W. Remarks Mar. 10. 1h 189.0
1 7 5	West EN.E.	Paras il e l'
1 7 5 3 5 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	WBS/	Commences with fresh
5 8		breezes and fine weather
7 8	ens.	with a long following see
9 6	2110:21	for which togeather with
11 4 12 4		The curent fifteen miles. In
1 5 2 4 5	East	Middle and Pull to
3 5 4 5	O dest	strong breez and pleasant
5 6		all sail expanded to the
7 6 8 6 m	EBA	wind.
9 7 /		The orace.
11 12 12		
52 4 MG	Diff. Lat. Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
	///-9	33.4228 168 27.49 East

Menum Prednum Musler

'e Muum Trumum Musler
China from Calcutta towards Salem
H. K. H.K. Courses. Winds. L.W. Remarks Mus 12 th 1820
1 6 West EBN Commences with sleady
breezes and pleasant weather
5 6
6 5 all necessary sail set
8 6 at 1 FM. set the M. T.G.
10 6 shrolg. sails.
12 4 6 Nar. per az al-4"30 27"12 4.
2 6 Aliddle part moderate
4 5 ENE at to J. M. sect the M. J. M.
6 5 5 5 W.M. J. G. sludg seil.
3 4 5 au Set sleysculs
11 4 What East Ends pleasant
II 3 She our 20 30 per Gom.
Course Dist. Diff Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
955/158768134 35"128271 155 25"14 East
H. K. H.K. Courses. Winds. L.W. Remarks Main 13 th 1820
1 5 3 WBN EBS Bigins with moderate
breezes and pleasant new-
5 6 5 ther all sail expanded to
the wind.
19 9 5 Onch De 1
10 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6
Middle and latter part
3 6 5 East moderale breezes & pleascone
8 8 S ENE N.B.) Jon the curent of
allow 40 miles I'm pr compais
12 4 5 888
Course. Dist Dist. Lat. Dep. Lat. by D. R. Lat. by Db. Varia. Dist. Long. in Long. by Jb. 8640180 808/019 36130 279199 2115
The second second

	4	Phi	now	from	Culcrilla towards Selem
H.			1		1. w. Remarks Man 14th 1820
1	in				
2	~		Colon	e e	24 Begins with light airs
4	4		Phy BY	NM	B'W and squally appearances.
5	3 2		NAT	New	est at 3"30 PM. in Royals &
7 8	4		NBT	T she	Mr flying jil. At 4 FM.
9	2	1-	Shy B	11/4	tacked ship
1	2	5	my Sy		
12	1	5	NAM	25	At & Fell took in the
2 3	2	5		West	J. G. sails, Til and Span.
4 5	2 2	1.			ker
6	3	5	IR In	my s	W Middle opart strong br
8	4	5	Nan		- eezes squally with ran
9	5	5	NW	es	NB criveni & W30 miles.
11 12	4	5			
Course	.] [Dist.	Diff. Lat.	Dep. Lat	t. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
NO	77	52	180	48	36.09827 60 20.55 Fast
н.	K.	н.к.	Courses.	Winds.	L.W. Remarks ~ Mar 15. W 1820)
1 2	5	5	NW	WYN	1000
3	6				Commences with fresh breeze
5	6			14/h	and pleasant weather set no
6 7	6	5		JWB	M' als and stayseuls.
δ,	5				
10 11	1,4	6		FG 6.	Middle part fresh breezes
12	7	1		000	and squally weather Doub
2	7	5			le reefect the F. Goll. J. sails
3 4	1/4	5		SE	l'a
5 6	Ly				
7 8	Ly	6			Ends of the
ç. 10	1		Nessy		Ends squally ship under
11 12	6	4	Orey Ty		reefed T. sails.
Course	7	Pist.	Diff. Lat.	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
N68	8%.	Ma	621	A	35.04 26W 193 17 22 Eust

Heram Putnam Master

Jonam Trunam Moster
China from Celerated towards Salem
H. K. H.K. Courses. Winds. L.w. Remarks Mar 16 th 1820
1 76 3 NOVY SSE Begins with strong bree-
3 6 5 zes and squeelly, ship rin
5 6 7 ON -der single reefed lopswils.
7 / 1
8 8 N.W.Bel. at 5 F.M. let the reefs from
10 7 5 the T. sails and set the Form
1 my
2 6 5 South
4 7 NN Middle and latter parts
6 7 5 fresh breezes and persoing
8 8 squalls.
10 8 NB For the hear of the search
11 8 criv per compassaom West
Course Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Do. No. 199 113 & 164 33"23 25 W 199 14"05 East
TO VINDE WELL
2 8 . Commences with strong
4 8 Breezes and Heising clouds
all necessary sail set. Var. Ber. wz 25" vo West.
8 m 5 Var. Her. wy m 25" vo West.
10 8 5
11 8 Middle part fresh breeze
and pajoing clouds.
5 8 0. M. set the Lear-
6 8 7 5 Coard M. J. M. stridg seil
3 6 5 Stridg. sails fore & aft.
11 8 Ends pleasant.
12 8 Dit Diff. Lat. Dep. Lat. by D. R. Lat. by D. Varia. Diff. Long. Long. in Long. pv)).
8/47/18/ 128 137 31.11 25/2/63 111122 East
The state of the s

Ship China

	14	Bi	na	į.	Culculla' cowards Falem
П.	-	н.к.			L. W. Remarks Mou 18 th 1826
1 2 3	8 hy	5 5	- 1 . KI	Soul:	h Begins with strong liee
4 5 6 7	18 77	5			att neversary seil expande At 1 IM. took in the F.
8 9 10 :1 12	1/8 /m	5 5			I.G. studing sail.
1 2 3 4	00000	5			Me a m. let a reef from
5 6 7 8	5676	75			the Mix J. sail. Ends trong breezes & a lon
9 10 11 12	6666	8			foctoning sea jo which I
Nuse.	h	172	1159	129	by D. R. Lat. by Ob. Varia. Diff. Long. Long. In- Long. by Ob 24 / 150 # 8452 East
Hi. 1 2 5	676		Courses.	Winds. V Foreli G 13%,	Commences with moder
5 6 7 8	06556	5			meather all sail expanded
9 10 11 12	5555	7555		2.	Var per gzm 22"5/West:
1 2 3 4	4554	5	N.N.M.	<i>h</i>	
5 6 7 8	3211	5		M. 13.5.	Latter part light breeze
9 10 11 12	02/	ゔ			sails braced refe the yanas.
N46	An	102	Diff. Lat.	74 Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 2800 23% 85% 7127 East

Henam Pulnam Master

	1	ohina	,	Galcritta towards Salem
Н.	K.	H.K. Cours	es. Winds.	L.W. Remarks Man 20 Uh 1820
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6	132223211123212212	5 5 Nou	Christing Solming Colming Colm	Gommences with light breezes and clear. Out 6"30 J. M. look in the stayseils. Middle and latter parts
7 8 9 10 11 12 Course \(\frac{1}{2}\)	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 NE 43 5 5 5 5 5 5 5 5 5 5 5 6 5 5 6 5 6 5 6	2 NN 90 at. Dep. Lat.	
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5	5555555555400055555	NE1	3. 8 % Vs	Begins with moderate breezes and cloudy wear ther, all sail set by the wind.
5 6 7 8 9 10 11 12	000000000000000000000000000000000000000	5 5 5 12 8 9 7	t. Dep. Lat.	stricte sails. Lealler part fine breezes all stricte sails set, before the wind. by D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Ds. 25"014 25 798 5"56 East

Ship China

(D)
China from Galcrilla cowards Salem
H. K. H.K. Courses. Winds L.W. Remarks Mar. 22d. 1820
1 6 5 N.N. man These twenty four hour
Shese twenty four hours beguns and ends with
5 6 5 strong trades and bals-
7 6 7
of the part exposer
10 5 5 5 ded that will draw.
12 5 7 8.
2 6
3 6 4 6
5 6 5 5
7 6
8 6 9 6 10 6 5
10 6 5
12 6
Course. Dist. Dist. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. In Long. by Ob. V551/47 88 \$117/2 23/3/3/25/29 3"47 East
5 5 W. Brock'st
2 6 JEBS Degins with fine bree
3 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
6 5 7 set helmer that minds - Pom
following sea for which
9 6 7
11 5
12 5 1 5 5
1 5 5 2 5 5 3 5 7
4 6
6 6
Latter part fine breezes
Loatter part fine breezes 10 5 11 4 5
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
84m/ 134 89 895 22"02 19 104 2"03 to ast

Kiram Runam Muster

H. K. H.K. Courses. Winds. L.W. Remarks What 24 Wh 1820 1 4 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chin	er from Culculter towards Sulem
2 4 7 3 5 4 5 6 4 5 7 44 8 5 8 9 5 5 10 5 11 6 5 8 6 7 9 6 5 8 6 7 10 5 5 11 6 3 11 6	Н. К. н.к. С	Courses. Winds. L.w. Remarks Man 24 th 1820
H. K. H. K. Courses. Wonds. L. W. Remarks & Man 25 th 1820 1 2 3 5 5 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 4 5 5 5 6 4 5 5 6 6 7 8 6 5 7 8 6 7 8 6 7 8 6 7 8 7 8 6 7 8 7 8 7 8	Begins with light bree- zes and cloudy weather all sail sail set before the wind. chiedale and latter parts moderate breezes and pleasant weather all sail set.
Jegins and ends with steady trades and pleas steady trades and pleas and all pleas and and reparing to 5 to 7 to 8 to 5 to 7 to 8 to 6 to 7 to 6 to 7 to 6 to 7 to 7		95N95 25"35 20"41817 102 00-216 ast
3 6 5 4 6 5 5 5 6 6 5 10 6 5 11 6 7 12 5 6 6 7 6 6 6 7 8 6 6 5 10 7 7 8 10 7 8 10 7 8 10 7 8 10 7 8 10 7 8 10 7 8 10 8 10 8 10 8 10 8 10 8 10 8 10 8 10	Н. К. н.к. С	Courses. Winds. L. w. Remarks & Now 25 th 1820
Course Dist Diff. Lat. Dep. Lat. by D. R. Lat. by Jb. Varia. Diff. Long. Long.	3 4 5 5 5 6 7 8 9 10 11 12 1 2 3 4 5 6 6 7 8 9 10 11 12 5 5	steady trades and friends and make million employ ed in unbending the M. J. sail and reparing it & sending it aloft.

Thip China

	6	hu	n in!	from	Ci.	ekereller cowards Halem
Н.	К.				}L. W.	Remarks Alan 24 th 1820
1 2	5	e	NYVBU	198		Begins with moderate
3	5	3				treeses and steady trudes
5	6	*/				
7 8	6					the wind.
9	5	ó				
11	6					Var per arm 19.35 West?
12	5	3				
3	5)					Middle part moderatet
4 5	11					loveres and pleafant.
6	6			1/10 40		All y U.M. set the I & A
8	3	5		SE138		J. C. suils & flying jil work
10	6	5				the Low Lower strucky sail
12	6		0.2.1			Ends pleafant
N5	2%)ist.	, 1	Bep. Lat	. by D.	R. Lat. by Ob. Varia. Diff. Long. Long. In Long. by Ob 18"02 19 W 92 W 3"15 West
11.	<i>I</i> 3.	н.к.	Courses.	Winds.	L.W.	Remarks Man. 27 th 1820
1	5		NAMB	W		
2	4			SEASE	V	Beyins nithe moderate for
4 5	4	5				eres und pleassant weather
6 7	5					all sail set before the wind
8	5					A long following sea for
10 11	4	5		J.E.		nheck I allow fifteen mines
12 1	4	5				ore the exerse!
2	4	3				
4 5	4	3				
6	5					
8	4	5.5				Ends with fine breezes
10	4544663	24				all sail expanded that me
11 12	6					dran.
Course		130	Diff. Lat.	011	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 1649 88 105 51100 West

Minum Runame Master

	(Thinw from Calcritta towards Palem	
H.	K.	H.K. Courses. Winds. L.W. Remarks e May 28 th 1820	
1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 Course	450005555555555555555555555555555555555	5 NWB V F. S. Commences with made ale briefs alternated with light squalls of rain. light squalls of rain. light squalls of rain. Us 3" 45 P.M. san the Is and of I'd Betenw bear. N. B. E. frew Compage Dist y Lieurnes. Van per arma 4" 51 18" 10 N. 15 6/2 E. Saller part places and places and N. 15 miles med men M. M. S. R. Lat. by Ob. Varia. Diff. Long. I Long. in Long. by 15" 21 18 W 80 15" 21 18 W 106 7" 3 N Wes	in white was a second
H. 1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12	555000000000000000000000000000000000000	15.21 18 2 100 7.37 Wes 1. K. Courses. IVinds. L. w. Remarks C W 13 C V V V V V V V V V V V V V V V V V V	
Course	Dist		

				1/1/19	11	Zama.
	f	7		from		iowards ,
н.	К.	н.к.	Courses.	Winds	1 L. W.	Remarks
1 2 3	;	ź	<i>y</i> , <i>y</i> ,	, U.		
3 4 5 6 7 8	2.0					
9 10 11 12 1 2		·				
3 4 5 6 7	c ()					
8 9 10 11 12						
Course	: C	Dist.	Diff. Lat.	Dep. Lat	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
Н.	K.	н.к.	Courses.	Winds.	L. W.	Reverks C A
1	40				distance -	
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	e.	ú		,	e.	
5 4 5 6 7 8 9	÷			,		
5 4 5 6 7 8 9 10 11 12 1 2						
5 4 5 6 7 8 9 10 11 12 1 2 3 4 5		Ú Č				
5 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9						
5 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8			Diff. Lat.	Dep. La		R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.

	,	,		from						
Н.	K.	H.K.	Courses.	Winds.	L.W.	Remarks	2. 品档	is	<i>i</i> ;	
1 2 3 4 5 6 7	50000	3				\$, i		
8 9 10 11 12 1 2	Э	÷				= ///	-10-			** **
3 4 5 6 7 8 9)	£								
11 12 Course		Dist.	Diff. Lat.		L. W.	Remarks		1	g. Long. in	Long. by Ob.
1 2 3 4 5 6 7	3			,		9			andy.	
8 9 10 11 12 1 2	, v	3						17	nel n	
3 4 5 6 7 8	i i						40			
10 11 12 Course	D	ist	Diff. Lat.	Dep. La	t. by D	. R. Lat. by C		Diff. Long	. Cong. in	Ling. by Db.

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n.	К.	H.K.	Courses.	Winds	L. W.	Remarks
1 2						
3						
4 5	à					Challes sense his many his
6						anner of a second
7 8						
9	2					
10						
12						
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4						The permitted to the state of
5 6	c	,				
7	Ž					- Valle Jan Jan Jan
8 9	*					
10						Market and the second s
11 12	2					A. L.
Course	. 1	Dist.	Diff. Lat.	Dep. Lat.	by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
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li.	K.	н.к.	Courses.	Winds.	L.W.	Remarks
1	+			,		,
5				140		
	2	2				ence participant and the second and
5 6	7					
7	1					
8 9	63	J				
10		T.				
11 12						
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2 3						
4.	2	,0				Ends mill fine them
5 6	9 4)					Rate and a set of the
7 8	.,					
9	3	4				Frank Marin
10		70.				
12						
Course		Dist.	4		by D.	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
. 17	9	8.	,	i e		4.5

May O'Kimer

		ŧ	Carre	on'd	Administra Harrisa
	*~			from	towards
Н.	K.	н.к.	Courses.	Winds. L.W	Remarks 9
1 2 3	,		æ/	•	
4 5		٤		ų.	
6 7 8		ý		çă	
9 10 11	٦	ς,		· c	
12	ć	3	•		
3 4	(c)		. •		
5 6 7	c .	,			
8 9	رب د .				i de la companya de l
10	é.				
Course	I D	ist.	Diff. Lat.	Dep. Lat. by	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
н.	К.	н.к.	Courses.	Winds. L.V	v. Remarks
1 2	٠, ٢		, ' .'		
3 4 5	÷				
6 7 8	۵	۷,		63 Z.S	
9 10 11				2	
1z 1	ن				- Hante p - y
2 3 4	e.				
5 6 7	8)			
8 9	3	5 5			
10	i e	É			
Course			Diff. Lat.	Dep. Lat. by	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Osl

1/4 * * towards from £2. К. H.K. Courses. Winds L. W. Remarks 1 : : х 3 х э 10 i 1 12 3 4 5 6 9 10 11 12 Diff Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob Dist. Course. H. H.K. Courses. Winds. L. W. Remarks 1 3 5 6 8 9 10 11 12 1 2 3 4 5 2 10 11 se seto di 12 | Dist. | Luff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob.

Com 6 money

towards from Remarks and and the 18 26 H. K. H.K. Courses. Winds. L.W. 1 1. 2 6 3 0 Burney to Burney or the 4 5 6 10 pither production is 8 3. 9 3 2: 10 1.1 11 4 2 12 5 1 , 2 3 07 4 .; 5 2.1 6 41 7 5 8 9 5 11 10 11 12 Varia. | Diff. Long. | Long. in | Long. by Jo. Lat. by D. R. | Lat. by Ob. | Dist. Diff. Lat. Dep. Course 1/2011 10 16114211 Winds. Remarks H. K. Courses. L. W. H.K. 4 1 (10) 1/11 10 25 All 2 4 3 23 5 und pulonny 4 5 6 و 8 3 10 11 · Muddle would butter pourle 12 Í 1 strong breezes would proceed j 2 3 73 4 5 4 5 6 2/ 5 4 8 5 13 10 11 5 5 12 Dep. | Lat. by D. R. | Lat. by)b. | Diff. Long. | Course Varia. Dist Long. in 1 Diff. Lat. 26176 . 316 1"2201

	C.	(11 (11) ¹ / ₂ z	from	true de comade direct
11.	К.	H.K. Course	s. Winds	L. W. Remarks . 1/7 cit 11 14. 1821
1 2	4	5 N 1500	1. N/ X/	of the strong
3 4	6),	3 1/2/	11/1/	sur is and bug by remains
5	1) e)	4		' ' ' · · '
7 8	3		11/1/17	Mary of d.
9	11	1/4 St 81.	13 1	
11	14			
1 2	14	Nº M	1	· Middle part or ma for.
3	11	3 N 1/2	Med St.	
5	il	X		with in to armedic paid as
6 7	1.1	2		1 Exp 2 14.
8 9	13			South will sixty breezes
10	14	0	R	and planty
Course	<u> </u>	Dist. Diff Lat	1	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
5/7	为	1	180	2.17 10 N 81 2:47 13:20
Н.	K.	H.K. Courses.	1	L. W. Remarks Marik 12 W. 18211
1 2	11	My Me.	WATE FOR	
5 4	3	/ ~ / ·		plany heres wind pagaing
5 6	3	1		e a a aries d'er va sorres
7 8	10			and with the second
9	2	s Him	j.	File was the
11 12	5	1/27	V	
1 2		1712		
3 4	1			
5 6	5	3 1617	V	
7 8	E 60	5 0 1/2/1	31/	
9	5	War.	NA C	
11 12	6	· Will	E A	
Course		Dist. Diff. Lat.	1 1 1 1 1	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
1436	UKr.	150 40	1.19	3.42 1 1/5 291142 41681

-ity of the continues of the

			Calcutta towards Palem
Н.	K. H.K. Courses.	Winds. L.W.	Remarks April 13 Un 1820
1	566 4 4 4 4 4 4 4 5 7 8 5 Diff. Lat. 128 89	Dep. Lat. by 1 90 311/	Commences with strong breezes and passing clouds all necessary sail set by the wind Oct 5. P.M. look in the flying jil Middle and latter parts strong breezes & cloudy
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	K. H. K. Courses. 66 57 66 57 66 66 55 5 5 5 5 5 5 5 5 5 5	SWEED &	Remarks Offstel 14 the 1820 Begins with strong time des & cloudy Al & J. M. single reefed the lofosails Chiddle and latter parts strong breezes squally small rain.

Ship China

	U	Pin	r e ext	from	Calculla cowards Galem
Н.	К.	н.к.			L. W. Remarks , April 15 16 1826
1 2 3 4 5 6 7 8 9	666700000	75		N. N. S	
1 12 1 2 3 4 5 6	66655066	5 5 5			Middles pant squally with small rain. Out 930 a.M. sel the FT
7 8 9 10 11 12 Course	4 1	3 Dist.	Diff. Lat	Dep. Lat	So 28 4 7 11 34"59 Trust
1 2 S 4 5 S	K.	5 5 5	Courses.	_	4. Begans with pesh breezes and og sælly appearances all necificay said set.
6 7 8 9 10 11 12 1	19.6 The Carly	8			Al 4 J. M. Let a reef from. The M. J. Shirt
3 4 5 6 7 8 9	by Jaylay my y he	5 5 6 5 5 5	XYX /2 . 1		Ends with strong briege
11 12 Course	1	Dist. 1	Diff. Lat.	4 . / 3	1. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 1/100 44 1/8 36"5

Kiram Rulnam Muster

	R.	hin	W	from	6	Coultai towards Falismi
Н.	К.		Courses.	_	L.W.	Remarks April 10th 1820
1 2	And have	3	877/2.1	V. J. C		Commences with strong the
3 4	They	2				zes and passing stouds it
5 6	16	6				necessary pair set.
7 8	0	5				
9	his hay	5				· Mild & port serma
11 12	12mm					ezes and papially sistem
1 2	fine the	5				
3 4	1	2 8				Ut 10 a. m. trok in 12 a.
5 6	0,	حرو				and ell representations
7 8	k :	e.				Ends with si on overses
9	8					is different to
11 12	hy	6				
Course		ist.	Diff. Lat.		it. by I	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
<u>=</u> н.			Courses.)	L. W.	Remarks cilpril 17 Unil820
1	My	.5	NW/2	VEast	_	Comes in with strong
3	7	5			1	breezes and army weather
5 6	lay	5		•		all necessary suit set.
7 8	ily	3			1.	
9	The state of the s	76				Middle part strong breeze
11 12	by	5				& squally.
1 2	they may					ble 10 in M. Lock in the I
3 4	Ly	6				Is M. J. G. sails
5 6	1/2	1				au 12 John. reefect the J
7 8	6					suils
9	1/8	5				Lealler part fine breezes
11 12	6	5				& pleasant, alt sail set
Sourse	IUM	. /	Diff. Lat. \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 (() 1	at. by I	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 15,25 Ot 115 4048 West
1	1	/	1	1 1		

Frige Chima

	7	fel	ne	from	Calcullat cowards Salern
11.	K.	H.K.	Courses.	Winds	L. W. Remarks April 1911 1820
1 2 3	5	5	Mayn	Eis?	Commences with strong
4 5 6 7	Ly			quer	ds, all nerejsany sein set.
8 9 10	ely lie	5			at 1 J.M. set the J. J. stud
12 1 2	7				let 2 I. M. set the starboard former streets seed to rejulo.
3 4 5 6	Ty	hy			al & J. It. in Lower st de
7 8 9	777	y			ary a m in J. Stride so
10 11 12 Course	7	8 4 Dist.	Diff Lat. 1	Dep. Lat.	by D. R. Lat. by B. Varia. Diff. Long. Long. in Long. by Ob
K I L	40	14.	126	114	17 2 2× 120 4248 7206
Hi.	К.				L.W. Serviks officiet 20 Low 1820
1 2 3	6 1/2	5	h m/3.	V. C. V.E	und misty weather, all nice
4 5 6 7	2	5			egoary suit set-Water umi
8 9 10 11	1	3			étuire part modérale
12 1 2	6				oner is and present weath
3 4 . 5 6	4	3			und s. C structure suits to
7 8 9	5 5 5	1.			de sours.
11 12 Course	5		Diff. Lat.	Dep. Lat.	by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
Ny.	4111		119	80	19130 " 84 44112.

Heram Pulnam Master.

	01	hina	from	C	alcritto towards Salem
Н.	K.	H.K. Cours	es. Winds.	L.W.	Remarks April 21 st-1820
1 2	5 5	5 14	1304 N. 8	0	Commencel with modes
-3	5	5			ate breezes and pleasant
5	5	5			
6 7	5 5	5			weather all necessary soul
8 9	5	13			set. Teople employed in
10	5				painting the ship.
12	5	5			at 43 J.M. look in F. J.A.
2	5				& M. J. G. stridingswit.
3 4	5	5			at 2 am squally took in
5 6	5	5			royals & flying jil
7 8	5	5			at 5 a.m. set studing-sa
9	5	0			Is royals.
10	4				Ends pleasant.
Course	2	Dist. Diff. L	at. Dep. Lat	. by D	D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
N36	6 4	122 99	72	h	- 21.18 2° 4 78 45"30 mest
Н.	К.	н.к. Сочт 8	es. Winds.	L. W.	Remarks 2 1 1 2 2 d 1 8 20
1 2	2	W.W.	BUNE		Commences with light
3 4	1,				uns and pleasant meather
5	1,				"people imployed in pui
- 7	- 2	5 Tropy	a		nting the ship inside.
9	3	5			
10	3	5 10	5		Middle book People 100
12 1	3 4	5 00			Middle part light squis
2 3	4		(Clay	7	alls and misty weather
4 5	5 4. 5	3 Win	13 to		
6	5	6			
8	5	W	50		Ends moderale breezes
10	4.				& preusured weather.
11 12	3	5 N/h	BN		
Course	- 1	Dist Diff. La	1 / 11.	by D	D. R. Lat. by Db. Varia. Diff. Long. Long. in Long. by Jb.
V3 /	12	80 4	7 64		22.09 12h 69 46"29 West

Thip China

1. K. H.K. Courses Winds I W. Remarks Alazid 23 dt 180	
The state of the s	,0
1 3 5 NW N. S. 1 Commences with	Rig-
3 2 5 5 2 6 sand ples	200,224
5 2 6 1 my Will meather all necessa	
7 81 9476 /	19
8 3 Soul sel on the win	col
10 2 3	
12 3 West NWAN Middle part list	ht for
1 3 5	
3 3 5	1
4 3 Stune night. 2º18 Wes	st
6 3 5 lar per agm.	
8 5 5 % CF Ends pleasant san	v a
1 0 1 2 17/10 21	2.
11 3 mist	A WEE
1.2 3	Long. by Ob
N899784 10 84 - " 229 2W2W 91 40"/it	Trest
1. K. H.K. Courses. Winds. L.W. Remarks Clarit 24 th 18	015
1 3 700 8 75 150 16	
2 4 Begins with light	breezes
3 3 4 3 and preusant weath	er ince
5 3 5 West Still smooth sew.	
7 ^	
9 1 5 KEVW	
10 1 CMiddle part calm	/.
12 : Wante (10) Ul 1"30 U. m. a light	breez.
2 2 5 NY 12 YIV. El From the NE with le	
3 5	
5 6	
6 5 2 NW ENE Loutter part moderas	le bresse
8 3 WWISH & pleusant set the for	w lopin
10 6 3 % J. C/ stretting suit.	
11 3	-
Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in L	ong. by Ob.
NH 195 50 54 " " 22"5/NO0 59 109"4	West

Hiram Pullnam Master

	(hin	na	from	Ga	deutlo towards fulum
H.	K.	H.K.	Courses.	Winds.	L.W.	Remarks citaril 25 HN 1820
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9	55555434442222221112222		H.W.B.			Begins with moderal. Breezes and pleasant wear ther all necessary said set. Middle part light breezes es and pleasant. Loalter pour light breezes &s a heavy swill. Profrée employed in unberd diry the Itall I sails & The
12 Course	2 Di		Diff Lat.	Den I Lat		S. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Jo.
434	- 1		63	43 4		23 DOLY O'V 48 49 37 West
н.	K.	1. K.	Courses.	Winds.	L.W.	Remarks 2 th wil 26 12 1821
1 2	- 1	5	TWISL	V 598		Commensus milli Light
3 4 5	8	3		f H	^	breezes and pieus and meato
6 7 8 9 10	244456	5 5		J SW		er all mer jøart strong kren
12 1 2 3	666	5				zes ind pleasant meather
4 5 6 7	In the stand	6				und small ruis?
8 9 10 11	lay lay	5	Martin Control Section (1987)			
12 Course	Dist	1 1	Diff. Lat.	Dep Lat	by D	R. Lat. by b. Varia. Dirt. Long. Long. in Long. by b.
N84)	1 .		1		15" 4	

	ŧ	ni	nu'	from	te	abrille wards Aulem
Н.	К.				-	Remarks of Moril 24 th 1871
1 2	15	U	Win 2	7. ff	The second	Beauto milli fresh livery-
3 4	/		ű			es una rai y weather.
5	2			f		Ul 1:36 J. 11. 1 mit in the I.
7 8	2 5					I must chulle asuit to M.J.
9	4					must playbuit.
11	0			Y 137		let to P. Il set the M. J.E
1	0			J 100 1		
3	2			1 1 1 1 1 3		struit you!
5	3			19 1		Olt 10 S. All set J'Ill's
6 7	2	3		75		Liones philips is
8 9	3		NAW 131	7800		L'air paid rivedy to race.
10	1		NOY E	V 34 E		ment a lock in J. y. Is Leave
12 Course.	2	Dist.	Diff. Lat.	Den I La	t by D	R. Lat. by Ob. Varia Diff. Long. Long. in Long. by Ob
V2	184	my C.	my	3 hy	26"	The state of the s
Н.	K.	н.к.	Courses.	Winds.	,L. W.	Remarks 2/11/2 2 - 1. 1820
1	2	3	NEW Y	116	1	Conversed post more
5	4	6				Le contrator de la contratorio dela contratorio dela contratorio dela contratorio dela contratorio de la contratorio de la contratorio dela contratorio de la contratorio dela contratorio
5	2	5				mentin.
7 8	2000	5		j ·		
9	3	5		Grat.		Mid his me were lines
11 12	2			PT (2) 1;	カシ	and we will text in
1	1	5				uel stiesing of its
2 3	1	3				·/
5	1			825 %		
6 7 8	4	5		FF'E	,	L'ulter paris treung tuns
9	3			J.J. J.		
10	3	my				
Course	1	Dist.	Diff. Lat.	 Dep. La	at. by D	R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.
N.T.	7	4.8	1 773	30	4 17	2879 VU 45 3244 West

Kiram Rulnam Master

	G-	hina	from (Salerella towards Lakern
H.	K.	H.K. Courses.	Winds. L.	w. Remarks e Youl 29 Hh 1820
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4	5322/ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	WY AS SY	Colm Colm	Commences with strong freezes und signale. Cu so Fell double respect The top sails. Cu 4 Foll word prips to The N. 35 W. Var per as must be strongs
5 6 7 8 9 10 11 12 Course	/ / / / / Di	St. Diff. Lat.	Dep. Lat. by	D. R. Lat. by Ob. Varia Oht. Long Long. 1. Long. 5, 5, 5.
H.		1. K. Courses.	Winds. L. W	Remarks Mord 30 th 1820
2 3 4 5 6 7 8 9	1111111	5 5 46 V 11 8 5 5 5 5 6 V 11 8 8	Wind	winds und facus and weather all means on cepsairy sail sel.
11 12 1 2 3 4 5 6	2221,2345	WW. 13 W	Trést	Middle pur leght lives yes and culins Tesper emprioyed in paricing the
7 8 9 10 11 12	か め り Dist	Worth?		pleus word weather. R. Lat. by Db. Varia. Diff. Long. Long. in Long. oy 1.
488	la 11	(- 1		n 2923 0 22 50-21 West

thip thinsa

	61	Purpa	from	Concella towards Section
11.	K.	H.K. Courses	Winds	L. W. Remarks. : Mary 1 st 1821
1 2 3 4 5 6 7 8 9 10 11 12 Course	643333444444433322111	S. W. S.	Dep. La	Begins with press call cond cloudy. Ul 1 & M. Strawy, look The Reguls have sing. such the fitsel sing. Ul 2"30 S. U. maint suit. Ul 2"30 S. U. maint suit.
H. 1 2 5 6 7 8 10 11 12 3 4 5 6 7 8 9 10 11 12 Cours	212121212121212	H.K. Courses.		L.W. Remarks . M. 2 / 2
	94	Dist. Diff. Lat.	1	t. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.

	6	Fiv	nov	from	6	alouelle towards Salem
Н.	K.	н.к.	Courses.	Winds.	L.W.	Remarks May 3 d. 1820
1 2 3 4 5 6 7 8	3 3 4 4 4 4 4	5 5 5	NN W	South.	7	Begins with light breezes & pleasant weather, all necessons
9 10 11 12 1 2	2 go my my	4				Middle part fresht breezes & flavey took in J. Cf. struct
3 4 5 6 7 8 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6668	•	GG W		at 5 a.M. took in the Ping -uls mozen J. G. seil to single reefect the spunker. At 9 in
10 11 12 Course	24/	6 6 9 13t.	Diff. Lat. 7 /25	148	h -	Remarks Alexander Sail Remarks Alexander Alexander Sail Remarks Alexander
H. 1 2 3 4	K. 8 8 8	H. K.	Courses.	JG4		Begins with strong breezes Olt 5 5. U. took in 5. 5. C. suit
5 6 7 8 9	56666	8 4 3		J'W		Cu 4 PM a heavy squall
10 11 12 1 2	6 6 5 4	5				double reefect the fore & M.
4 5 6 7 8	4 3 3	5 5 5 5	North	WW		Ut 5 P.M. close reefect the top-sail, took in main-sail & jil sent down Proval yard
9 10 11 12	3 3 4 3	0	NBEK	D	by D.	al 3 select that los buils
132	WI	24	104			" 34 34 5 Mg 56"04 West

. Buys China

	t	nence from Cartonella cowards Fulem
н.	К.	H.R. Courses. Winds L. W. Remarks . Mary 5 th 1/20
1 2	,Y 3	Next NAN 100 Beyins mith string:
3	.}	Will the the
4	づ	5 Jules and a heavy sea;
5	3	3 4 E BON phip render doubles refere
7	3	5
8 9	5 2	5 top souls
10	2,	3 OU 1:36 P.M. rufed tine f
11 12	2.	
1		3 sant
2	2 2 2	3 Marie Vin (de gist diff) with in the
3 4	2	3 VINE VIN M Suis
5	3	Nate Dan Dan
6 7	2 2	5
8	2	Emile mile
9	2	Ends neith string gutes
11	2	5 4 4 8
12	2	
Course		Dist. Diff Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob
UYY	196	681 32 44 " " 33 25, 8 W 33 35,11 West
н.	K.	H.K. Courses. Winds. L.W. Remarks . Ilvery 6 1820
l	1	3 4/13 6 44 187:30 18 1
3	1	Northe Vish? Commences mithe strong
4	1	3 yules stup revider alose viete
5 6	1	5 W. V W 77 C) 1 ,
7	2	10 1 VIB V
8 9	1	
10	خ ا	5 PW Meddle port strong pie
11 12	4.	
12	5	a world freung sea.
2	56	From 4 le & S. Il. set the
3 4	la L.	south the said let a need began the
5	Ly	3 Grand Al sain het a reet from the
6 7	Ly	3. sail to M. J. sail
8	7	5 (wash) Ends strong gades to elect
9	4	NWBD) Creas surry que de la cerca
10	1	
12	1	
		No. of the Control of
Course	1 - 1	Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob. 103 73 73 4 36248 91 56.44

Himam Putnam Master

	6	hu	rice	from	60	Leville towards fairm
H.	K.	н.к.	Courses.	Winds.	L.W.	Remarks . Man Hh 18211
1 2 3 4 5	my my my my	5 3	1. W. 13. 7	75.8		co and summer ships of any
7 8 9 10 11	5 5 5 5	8	NTV	E. J. E	ę	at 2:30 P. M. Lot, in the
12 1 2 3 4	\$ \(\sqrt{5} \)	3		Evist		I. G. sail. Al gest set set deuble reise
5 6 7 8	5 66	\$		EUNE		Mes so all for suit to spanker
9 10 11 12 Course	- 5 6 4	5 5	-Diff. Lat.	Dep. La	t. by D	Ends piecsant
1/5	m W	142	My	119		34.50 87 119 5911
H. 2 3 4 5 6 7 8	43607660	5 2 A 3	Courses.	Winds. Exe EXE NE	L. W.	Remarks Allery & the 1820 Degins with strong breezes and squartly upposition on the strong to the strong of the s
9 10 11 12 1 2 3 4 5	6555564	53		EXE		Middle paul irrina moderal moud sail. At a le Me se the old sail let a pref from the F. Golt.
6 7 8 9 10 11 12	The Land of the state of the st	5				It said and spantier. s Al 10"30 sel I. G. suils to jeb Al 8"30 reef form it. J. suit. Ends pleus unt.
ON A	6011		Diff. Lat.	Dep. Lat	t. by D	R. Lat. by Db. Varia. Diff. Long. Long. in Long. Dy Db. 38"49 110 15" 61"48

This Chine

	t	fi:	vill!	from	to.	airettu cowards stiction
н.	K.	н.к.			L. W.	Remarks : Elery of his 1320
1 2	my 6	5	NM	icys		Begins with fine how, es
3	6	0				
5	6	3				and presant meather ill
6 7	6	6		WE		merejoury suit set.
8	1.4			UYU		Ul 4"30 S.M. Les es peef from
9	16	8				the five lepsan och Pan J. J
11 12	5	my		NEBU		
1	5	4				ell sindings. I is sent rips the
2 3	2					ett royer yend
4	4			World		Middle frank moderate &
5	5 5		TV isch			al 3 11. M. Love the St. 16.
7 8	4	5	Winch	WAG	1.16	
9	4	5			11	I by pust, all & Him bee makes
10	5	5	West			or surgle me jed du T'suil
12	1	7	11 62			Ut a to non all fayed yurd.
Course	~ .		Diff Lat.	Dep. Lat.		1 20081 07 00
UY E	G AV S	201	45	117 39	9"34	
H.	K.		Courses.	Winds.		Remarks ? 11604 10 12 1820.
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